

CANADIAN JOURNAL OF PHYSIOLOGY AND PHARMACOLOGY/  
JOURNAL CANADIEN DE PHYSIOLOGIE ET PHARMACOLOGIE

VOLUME 61 (1983)

SUBJECT INDEX/INDEX DES MATIERES

- Acetaldehyde formation urine ethanol 717  
Acetaldehyde pharmacol review 1  
Acetazolamide bicarbonaturia vol expansion 911  
Acetyl CoA transport mitochondria calcium 154  
Acid base commentary review qual 1442  
Acid base equil review 1444  
Acidosis ammonium excretion kidney 35  
Acidosis hypercapnia blood pH 166  
Acidosis plasma bicarbonate corticosteroid 641  
ACTH release kinetics secretagogue 488  
ACTH secretion cortisol stress 1281  
Acylcarnitine heart calcium transport diabetes 439  
Adaptation cold noradrenaline calorogenesis 1177  
Adenohypophysis perfusion ACTH release 488  
Adenosine myohemoglobinuric renal failure 567  
Adenosine nifedipine blood vessel 1057  
Adenosine reverse heart transport inhibitor 946  
Adipose insulin resistance receptor 802  
Adipose metab oxytocin insulin 1418  
Adrenal medulla baroreceptor reflex 381  
Adrenaline atrium supersensitivity hypothermia 572  
Adrenergic alpha activity hypertension deoxycorticosterone 149  
Adrenergic nerve response starvation refeeding 1101  
Adrenergic receptor bladder urethra 61  
Adrenergic receptor blood vessel 893  
Adrenergic receptor heart potential development 1509  
Adrenoceptor alpha 2 brain hypertension 764  
Adriamycin cardiotoxicity verapamil 1050  
Aerobic function exercise propranolol 1010  
Afferent muscle horseradish peroxidase Issue 4 axiii  
Afferent spinal cord membrane conductance 626  
Age drug metab liver enzyme 89  
Age intestine unstirred water layer 1501  
Age muscular receptor heart 822  
Airway anaphylaxis prostanoïd 705  
Airway bronchoconstrictor sensitivity immunization 876  
Albumin protein deficiency endogenous pyrogen 376  
Alc acetaldehyde formation urine 717  
Alc body temp exercise Issue 4 axix  
Alc calcium carbimide salsolinol detn 632  
Alc endorphin formation pituitary 967  
Alc hypocalcemia 388  
Alc mestranol norethindrone fat liver 808  
Aldehyde dehydrogenase liver calcium carbimide 431  
1025  
Aldosterone formation antimineralocorticoid 23  
Aldosterone hypertension Issue 4 axix  
Aldosterone plasma bicarbonate acidosis 641  
Alc phosphatase placenta calcium transport 1354  
Alkalosis hypercapnia blood pH 166  
Alpha adrenergic activity hypertension deoxycorticosterone 149  
Alpha 2 adrenoceptor brain hypertension 764  
Amine artery contraction dystrophy 182  
Amine brain chlordiazepoxide 81  
Amino acid antagonist hippocampus Issue 4 ax  
Aminodarone interaction digoxin pharmacokinetics 1483  
Aminolevulinic porphyria hyponatremia 363  
Aminophylline renal failure 567  
Amiodarone blood detn 245  
Amiodarone heart contraction rate 308  
Ammonium excretion kidney acidosis 35  
Ammonium prostaglandin formation calcium 1089  
Amobarbital metab liver microsome 67  
Amphetamine offspring noradrenergic neurotransmission 766  
Amplitude electromyogram pattern Issue 4 axviii  
Amylase pancreas forskolin calcium 1168  
Anaphylaxis airway prostanoïd 705  
Androgen aromatase ovary follicle 507  
Androgen formation theca granulosa 472  
Androgen testosterone granulosa Issue 4 avi  
Anemia blood canine skeletal muscle 178  
Anesthesia circulation vasopressin angiotensin 1494  
Anesthetic local fast axon transport 1478  
Angiotensin circulation regulation 1494  
Angiotensin mesenteric vessel 770  
Anisotropy elastin thoracic aorta 539  
Antagonist amino acid hippocampus Issue 4 ax  
Anterograde transport phospholipid axon Issue 4 aiii  
Antiarrhythmic heart arrhythmia model 1340  
Antihypertensive sympathetic mechanism 693  
Antimineralocorticoid aldosterone formation 23  
Antivasopressor antagonist vasopressin convulsion Issue 4 aiii  
Antrum smooth muscle membrane property 927  
Aorta elastin development 115  
Aorta fenestration lamina poststenotic dilatation rabbit 101  
Aorta proximal distal abdomen elasticity 614  
Aorta thoracic carotid artery 502  
Aorta thoracic elastin anisotropy 539  
Aplysia gill reflex 743  
Aplysia gizzard contraction peptide 949  
Aplysia siphon reflex habituation 749  
Arachidonate metabolite bronchoconstriction immunization 876  
Arginine plasma insulin exercise training 1194  
Arginine vasopressin blood pressure Issue 4 axvii  
Aromatase ovary follicle estrogen 507  
Arousal sleep fetus breathing drug 315  
Arrhythmia heart model antiarrhythmic 1340  
Arterial hepatic buffer response Issue 4 axv  
Arterial stimulation plasma vasopressin Issue 4 axvi  
Artery adrenergic receptor 893  
Artery carotid thoracic aorta 502  
Artery cerebral histamine norepinephrine 756  
Artery constriction dilation ATP 1409  
Artery contraction hypertension calcium antagonist 1523  
Artery contraction muscular dystrophy 182  
Artery coronary cAMP isoproterenol forskolin 1202  
Artery coronary contraction ergonovine 685  
Artery coronary occlusion infarct 672  
Artery relaxation nitroglycerin prostaglandin 554  
Artery sodium gradient dissipation Issue 4 axx  
Ascorbate laetrile cyanide poisoning 1426

- Ascorbate xenobiotic metab review 295  
 Aspartate methyl burst firing Issue 4 axii  
 Aspartate spinal neuron excitability verapamil 1467  
 Atenolol antihypertensive mechanism 693  
 Atherosclerosis Issue 4 xxvii  
 Atherosclerosis nutrition review 260  
 ATP artery constriction dilation 1409  
 ATPase magnesium diabetes protein Issue 4 axxi  
 ATPase placenta calcium phosphorus transport 1354  
 ATPase rectum jejunileal bypass elec 512  
 Atrial natriuresis electrolyte 996  
 Atrial natriuretic factor kidney function 1462  
 Atrioventricular conduction embryo 775  
 Atrioventricular conduction ventricular fibrillation 1079  
 Atrium chronotropism parathormone fragment 1162  
 Atrium hypothermia supersensitivity sympathomimetic 572  
 Autonomic ganglia thoracic synapse transmission 793  
 Autonomic nervous system ouabain heart 229  
 Axon fast transport anesthetic local 1478  
 Axon transport Issue 4 axxxi  
 Axon transport organelle oscillation Issue 4 axxx  
 Axonal transport axotomy Issue 4 axxiv  
 Axotomy axonal transport Issue 4 axxiv  
 Barnacle muscle freezing melting 1116  
 Baroreceptor reflex carotid epinephrine 495  
 Baroreceptor reflex catecholamine 381  
 Baroreceptor reflex vasopressin plasma 905  
 Base acid commentary review qual 1442  
 Behavior wet dog shake drug 1299  
 Benzopyrene hydroxylase liver steroid ethanol 808  
 Beta blocker cetamol cardioselectivity 1109  
 Bicarbonate chloride transport bladder 1081  
 Bicarbonate plasma acidosis corticosteroid 641  
 Bicarbonate plasma hypercapnia acidosis alkalosis 166  
 Bicarbonate transport colon theophylline enterotoxin 1138  
 Bicarbonaturia vol expansion acetazolamide 911  
 Bile DMBA absorption digestive tract 1368  
 Binding site glutamate rat Issue axvi  
 Bladder bicarbonate chloride transport 1081  
 Bladder muscle contraction neurotransmitter 1236  
 Bladder muscle neural myogenic control 1247  
 Bladder neurotransmitter receptor 61  
 Blood amiodarone deethylamiodarone detm 245  
 Blood anemia oxygen canine muscle 178  
 Blood cell red geometry 646  
 Blood esterase heroin hydrolysis 870  
 Blood hypertension Issue 4 axix  
 Blood pH acidosis alkalosis hypercapnia 166  
 Blood pressure angiotensin vasopressin 770  
 Blood pressure arginine vasopressin Issue 4 axvii  
 Blood pressure cadmium mechanism 1430  
 Blood pressure carotid epinephrine 495  
 Blood pressure catecholamine reflex 381  
 Blood pressure vasopressin angiotensin 1494  
 Blood pressure vasopressin review 1226  
 Blood vessel adenosine nifedipine 1057  
 Brain alpha 2 adrenoceptor hypertension 764  
 Brain amine chlordiazepoxide 81  
 Brain catecholamine hypertension 888  
 Brain dopamine release opioid 43  
 Brain iodoantipyrine partition coeff development 595  
 Brain methylmercury metab toxicity 1487  
 Brain neurotransmitter nutrient control review 271  
 Brain oxytocin binding 989  
 Brain salsolinol detm gas chromatog 632  
 Brain serotonin liq chromatog 530  
 Breathing fetus drug sleep arousal 315  
 Bronchoconstrictor sensitivity airway immunization 876  
 Bumetanide kidney electrolyte transport 159  
 Burst firing CA3 neuron Issue 4 axii  
 Cadmium blood pressure mechanism 1430  
 Calcium antagonist adriamycin health hazard 1050  
 Calcium antagonist heart action potential 957  
 Calcium antagonist hypertension smooth muscle 1523  
 Calcium carbimide aldehyde dehydrogenase liver 431  
 1025  
 Calcium carbimide ethanol salsolinol detm 632  
 Calcium cat motoneuron axiii  
 Calcium channel cardiomyocyte 1312  
 Calcium efflux sciatic nerve 1085  
 Calcium ergonovine heart artery contraction 685  
 Calcium heart sarcolemma timolol 240  
 Calcium ionomycin intestine contraction 535  
 Calcium membrane potential ion HeLa 144  
 Calcium mitochondria acetyl CoA transport 154  
 Calcium muscle excitation contraction cGMP 590  
 Calcium pancreas amylase forskolin 1168  
 Calcium papillary muscle contraction metab 1185  
 Calcium prostaglandin formation amnion 1089  
 Calcium protein kindling epilepsy Issue 4 aii  
 Calcium strophantidin toxicity Purkinje fiber 1329  
 Calcium transport antrum membrane 927  
 Calcium transport heart diabetes acylcarnitine 439  
 Calcium transport placenta ATPase phosphatase 1354  
 Calcium transport stomach membrane vesicle 699  
 Calcium uterus contraction ketamine 1305  
 Calcium vas deferens contraction noradrenaline 97  
 Calorigenesis noradrenaline cold adaptation 1177  
 cAMP coronary artery isoproterenol forskolin 1202  
 cAMP formation ovary hormone 608  
 cAMP pancreas amylase forskolin 1168  
 cAMP phosphodiesterase heart exercise training 1017  
 Canine myocardium conduction 207  
 Cannabidiol hippocampus evoked potential 420  
 Carbimide aldehyde dehydrogenase liver 1025  
 Carbohydrate metab Hymenolepis serotonin 137  
 Cardiac myofibril ATPase magnesium Issue 4 axxvi  
 Cardiomyocyte calcium sodium channel 1312  
 Cardioselectivity cetamol beta blocker 1109  
 Cardiotoxicity adriamycin verapamil 1050  
 Carotid artery thoracic aorta 502  
 Carotid baroreceptor reflex epinephrine 495  
 Cat spinal cord afferent Issue 4 axiii  
 Catecholamine baroreceptor reflex 381  
 Catecholamine heart rate decay 1374  
 Catecholamine hypertension deoxycorticosterone swine 149  
 Catecholamine kidney ureter obstruction 131  
 Catecholamine nerve saline natriuresis Issue 4 av  
 Catecholamine urine tissue hypertension 888  
 Cation transport erythrocyte hypertension 1003  
 CA3 hippocampal pyramidal layer Issue 4 axxii  
 Central nervous system axotomy Issue 4 axxiv  
 Cerebral vessel norepinephrine histamine 756  
 Cerebrospinal fluid vasopressin fever 427  
 Cervical afferent horseradish peroxidase issue 4 aii  
 Cervical stellate ganglia transmission 1149  
 Cervix efferent horseradish peroxidase Issue 4 axvi  
 Cesium intracellular hypoglycemia Issue 4 axxi  
 Cetamol antihypertensive mechanism 693  
 Cetamol beta blocker cardioselectivity 1109  
 cGMP muscle excitation contraction calcium 590  
 cGMP phosphodiesterase inhibitor submandibular 109  
 Chem porphyrin metab liver 546  
 Child rhythm urine diurnal 72  
 Chlordiazepoxide brain amine 81  
 Chloride bicarbonate transport bladder 1081  
 Chloride conductance relaxation kinetics Issue 4  
 xxxiii

- Chloride transport colon theophylline enterotoxin 1138  
 Chlorobenzene drug metabolizing enzyme liver 1063  
 Chlorobiphenyl uroporphyrinogen decarboxylase liver embryo 105  
 Chlorophenol drug metabolizing enzyme liver 1063  
 Cholecalciferol dihydroxy platelet aggregation 954  
 Cholinergic duodenum motility motilin release 1042  
 Chromatog gas salsolinol detn brain 632  
 Chromatog gas tetrachlorobiphenyl detn 1093  
 Chromatog liq serotonin brain 530  
 Chronopharmacol phenylbutazone 649  
 Cinnarizine hypertension smooth muscle contraction 1523  
 Circulation enterohepatic DMBA 1368  
 Circulation kidney endotoxin cirrhosis 1396  
 Circulation kidney hypertension norepinephrine 464  
 Circulation kidney leukotriene 325  
 Circulation regulation vasopressin angiotensin 1494  
 Cirrhosis endotoxin kidney circulation 1396  
 CoA acetyl transport mitochondria calcium 154  
 Cold adaptation noradrenaline calorigenesis 1177  
 Collagenase heart electrophysiolog culture 408  
 Colon electrolyte transport theophylline enterotoxin 1138  
 Commentary review qual acid base 1442  
 Conductance relaxation kinetics chloride Issue 4 xxiii  
 Conduction myocardium canine 207  
 Convulsion vasopressin antivasopressor antagonist Issue 4 aiii  
 Coronary artery cAMP isoproterenol forskolin 1202  
 Coronary artery contraction ergonovine 685  
 Coronary artery occlusion infarct 672  
 Corticodigastric input muscle response Issue 4 xxviii  
 Corticosteroid plasma bicarbonate acidosis 641  
 Corticosteroid tonin pituitary 201  
 Cortisol ACTH secretion stress 1281  
 Cortisol neuromuscular transmission Homarus 836  
 Crustacean neuromuscular transmission cortisol 836  
 Culture heart electrophysiolog trypsin collagenase 408  
 Cyanide poisoning laetile ascorbate 1426  
 Cysteamine spinal cord Issue 4 axxi  
 Cytochrome P 450 methylindole 395  
 Cytochrome P450 monooxygenase liver drug 983  
 Cytosol liver triiodothyronine binding protein 1035  
 Decarboxylase uroporphyrinogen liver embryo chlorobiphenyl 105  
 Deethylamiodarone blood detn 245  
 Dehydrogenase aldehyde liver calcium carbimide 431 1025  
 Dentate granule cell epilepsy Issue 4 axx  
 Dentate gyrus potentiation 1156  
 Deoxycorticosterone hypertension catecholamine 888  
 Deoxycorticosterone hypertension swine mechanism 149  
 Detrusor muscle contraction neurotransmitter 1236  
 Detrusor muscle neural myogenic control 1247  
 Development elastin aorta 115  
 Development intestine unstirred water layer 1501  
 Development iodoantipyrine partition coeff brain 595  
 Development isoproterenol potential papillary muscle 1509  
 Development RNA formation myocardium hypertrophy 341  
 Dexamethasone plasma bicarbonate acidosis 641  
 Dexpropranolol antihypertensive mechanism 693  
 Diabetes calcium transport heart acylcarnitine 439  
 Diabetes heart function insulin 516  
 Diabetes insipidus adipose oxytocin 1418  
 Diabetes magnesium ATPase protein Issue 4 axxvi  
 Diacetylmorphine hydrolysis esterase 870  
 Diamine oxidase release intestine histamine 349  
 Diet brain neurotransmitter review 271  
 Digestion gastrointestinal hormone review 282  
 Digestive tract absorption DMBA bile 1368  
 Digoxin pharmacokinetics aminodarone interaction 1483  
 Dihydroxyvitamin D3 platelet aggregation 954  
 Dilatation poststenotic rabbit aorta fenestration lamina 101  
 Diphenylhydantoin metab glucosidation 403  
 Dipyridamole heart venous pressure 213  
 Distal proximal aorta abdomen elasticity 614  
 Diuretic kidney electrolyte transport 159  
 Diurnal rhythm urine urea child 72  
 Diurnal variation serum somatomedin Issue 4 axxix  
 DMBA absorption enterohepatic circulation 1368  
 Dopamine release brain opioid 43  
 Drug fetus breathing sleep arousal 315  
 Drug liver monooxygenase cytochrome P450 983  
 Drug metab liver enzyme age 89  
 Drug metab nutrition review 295  
 Drug metabolizing enzyme liver chlorobenzene 1063  
 Drug receptor review 191  
 Drug wet dog shake behavior 1299  
 Duodenal lipid inhibition vagotomy Issue 4 axxii  
 Duodenum motility motilin release cholinergic 1042  
 Dye labeling hypothalamus Issue 4 axxv  
 Efferent cervix horseradish peroxidase Issue 4 axvi  
 Elastin anisotropy thoracic aorta 539  
 Elastin aorta development 115  
 Electrolyte atrial natriuresis 996  
 Electrolyte transport colon theophylline enterotoxin 1138  
 Electrolyte transport kidney diuretic 159  
 Electromyogram pattern Issue 4 axviii  
 Electrophysiolog granule cell epilepsy Issue 4 axx  
 Electrophysiolog heart calcium sodium transport 1312  
 Electrophysiolog heart culture trypsin collagenase 408  
 Embryo atrioventricular conduction 775  
 Embryo liver uroporphyrinogen decarboxylase chlorobiphenyl 105  
 Embryo porphyrin liver chem 546  
 Endogenous pyrogen plasma protein deficiency 376  
 Endorphin formation pituitary ethanol 967  
 Endorphin substance P pain 303  
 Endotoxin kidney circulation cirrhosis 1396  
 Endotoxin shock phospholipase A2 561  
 Enkephalin somatostatin secretion stomach 657  
 Enterohepatic circulation DMBA 1368  
 Enterotoxin electrolyte transport colon 1138  
 Enzyme drug metabolizing liver chlorobenzene 1063  
 Enzyme kinin forming ovarian cycle 736  
 Enzyme liver drug metab age 89  
 Enzyme liver microsome phenelzine 524  
 Epilepsy granule cell electrophysiolog Issue 4 axii  
 Epilepsy kindling calcium protein Issue 4 aii  
 Epinephrine release carotid occlusion 495  
 Ergonovine coronary artery contraction 685  
 Erythrocyte Froehlich interaction Issue 4 aviii  
 Erythrocyte hypertension cation transport 1003  
 Esterase diacetylmorphine hydrolysis 870  
 Estradiol uterus contraction 722  
 Estradiol uterus contraction prostaglandin 729  
 Estrogen aromatase ovary follicle 507  
 Ethanol acetaldehyde formation urine 717  
 Ethanol calcium carbimide salsolinol detn 632  
 Ethanol endorphin formation pituitary 967  
 Ethanol hypocalcemia 388  
 Ethanol steroid benzopyrene hydroxylase liver 808  
 Excitation contraction muscle cGMP calcium 590  
 Exercise aerobic function propranolol 1010  
 Exercise alc body temp Issue 4 axxix

- Exercise respiration ventilation hypoxia Issue 4**  
 axii  
**Exercise training cAMP phosphodiesterase heart** 1017  
**Exercise training plasma insulin secretagogue** 1194  
**Exercise treadmill ventilation heart** 120  
**Fast axon transport anesthetic local** 1478  
**Fat liver alc mestranol norethindrone** 808  
**Fat nutrition review** 253  
**Fatigue sartorius muscle** Issue 4 axxv  
**Farret vagal inhibitory innervation** Issue 4 avii  
**Fetal oxygenation vasopressin** Issue 4 axxvi  
**Fetus breathing drug sleep arousal** 315  
**Fetus membrane progesterone** Issue 4 axxii  
**Fever vasopressin cerebrospinal fluid plasma** 427  
**Fibrillation ventricular atrioventricular conduction**  
 1079  
**Fibrinogen protein deficiency endogenous pyrogen**  
 376  
**Flexor carpi radialis motor** Issue 4 aiv  
**Folate burst firing** Issue 4 axii  
**Forskolin coronary artery cAMP isoproterenol** 1202  
**Forskolin pancreas amylase calcium** 1168  
**Forskolin respiratory tract contraction** 581  
**Freezing barnacle muscle** 1116  
**Froehlich interaction erythrocyte** Issue 4 aviii  
**FSH androgen formation ovary** 472  
**FSH aromatase ovary follicle** 507  
**FSH ovary culture** 608  
**Furosemide kidney electrolyte transport** 159  
**GABAergic neurotransmission spinal mercaptoperipion-**  
 ate 174  
**Ganglia cervical stellate transmission** 1149  
**Ganglia thoracic autonomic synapse transmission** 793  
**Ganglion trigeminal neuron impedance** Issue 4 ax  
**Gas chromatog salosolimn detm brain** 632  
**Gas chromatog tetrachlorobiphenyl detm** 1093  
**Gastric acid lipid inhibition** Issue 4 axxiii  
**Gastric acid vagal innervation** Issue 4 avii  
**Gastric opioid peptide** Issue 4 axviii  
**Gastrin plasma vagus nerve** 1289  
**Gastrointestinal peptide nutrition review** 282  
**Gastrointestinal tract hormone vagus nerve** 1289  
**Genetics paraoxonase serum Indian Inuit** 336  
**Gill reflex Aplysia** 743  
**Gizzard contraction Aplysia peptide** 949  
**Globulin induced hypertension** Issue 4 axix  
**Glomurelar filtration urine** 435  
**Glucagon hemorrhage somatostatin** 237  
**Glucocorticosteroid insulin receptor testis** 653  
**Glucose metal adipose insulin** 802  
**Glucose metab liver regeneration starvation** 222  
**Glucose plasma insulin exercise training** 1194  
**Glucose transport jejunum sodium** 1129  
**Glucosidation diphenylhydantoin metab** 403  
**Glutamate binding site rat** Issue 4 axiv  
**Goat lung methylindole toxicity** 395  
**Goat methylindole pneumotoxicity vitamin A** 816  
**Granule cell epilepsy electrophysi** Issue 4 axx  
**Granulosa testosterone androgen** Issue 4 avi  
**Granulosa theca androgen formation** 472  
**Growth hormone serotonin secretion** 95  
**Gyrus dentate potentiation** 1156  
**Habituation siphon reflex Aplysia** 749  
**Health hazard adriamycin calcium antagonist** 1050  
**Health hazard laetile ascorbate** 1426  
**Heart action potential calcium antagonist** 957  
**Heart adenosine release transport inhibitor** 946  
**Heart arrhythmia model antiarrhythmic** 1340  
**Heart artery contraction calcium ergonovine** 685  
**Heart calcium transport diabetes acylcarnitine** 439  
**Heart cAMP phosphodiesterase exercise training** 1017  
**Heart contraction rate amiodarone** 308  
**Heart contraction substrate metab calcium** 1185  
**Heart contraction thyroid hormone** 1382  
**Heart electrophysi calcium sodium transport** 1312  
**Heart electrophysi culture trypsin collagenase** 408  
**Heart ext natriuretic rat** 127  
**Heart function diabetes insulin** 516  
**Heart metab insulin taurine** 457  
**Heart monocrotaline serotonin** 356  
**Heart muscarinic receptor age** 822  
**Heart ouabain electrophysi sympathetic vagotomy**  
 229  
**Heart potential development isoproterenol** 1509  
**Heart prostaglandin review** 1207  
**Heart rate decay sympathetic** 1374  
**Heart rate parathormone fragment** 1162  
**Heart rate respiration periodicity newborn** 329  
**Heart RNA formation hypertrophy development** 341  
**Heart sarcolemma calcium timolol** 240  
**Heart venous pressure inotropism vasodilation** 213  
**Heart ventilation exercise treadmill** 120  
**HeLa membrane potential calcium potassium ion** 144  
**Hemorrhage glucagon insulin somatostatin** 237  
**Hepatic arterial buffer response** Issue 4 axv  
**Heroin hydrolysis blood esterase** 870  
**Hexokinase muscular dystrophy** 369  
**HIAA liq chromatog brain** 530  
**Hippocampus pyramidal layer CA3** Issue 4 axxii  
**Hippocampus amino acid antagonist** Issue 4 ax  
**Hippocampus evoked potential tetrahydrocannabinol**  
 420  
**Hippocampus glutamate binding site** Issue 4 axiv  
**Hippocampus granule cell epilepsy** Issue 4 axx  
**Hippocampus neurotransmission norepinephrine** 841  
**Histamine diamine oxidase release intestine** 349  
**Histamine norepinephrine cerebral vessel** 756  
**Homarus neuromuscular transmission cortisol** 836  
**Hormone receptor review** 191  
**Horseradish peroxidase efferent cervix** Issue 4 axvi  
**Horseradish peroxidase muscle afferent** Issue 4 axii  
**Hydroxyamobarbital pharmacokinetics** 67  
**Hydroxylase benzoylprenyl steroid ethanol** 808  
**Hydroxytryptophan liq chromatog brain** 530  
**Hymenolepis carbohydrate metab serotonin** 137  
**Hypercapnia blood pH acidosis alkalosis** 166  
**Hyperinsulinemia insulin resistance adipose** 802  
**Hyperinsulinemia Zucker rat** Issue 4 av  
**Hyperoxia exercise respiration ventilation** Issue 4 axii  
**Hypertension alpha 2 adrenoceptor brain** 764  
**Hypertension catecholamine urine tissue** 888  
**Hypertension cation transport erythrocyte** 1003  
**Hypertension deoxycorticosterone swine mechanism**  
 149  
**Hypertension** Issue blood 4 axix  
**Hypertension kidney circulation norepinephrine** 464  
**Hypertension nutrition review** 260  
**Hypertension potassium deficiency norepinephrine**  
 1473  
**Hypertension smooth muscle contraction cinnarizine**  
 1523  
**Hypertonicity muscle contraction** 847  
**Hypertrophy myocardium RNA formation development**  
 341  
**Hypobaric hypoxia lung protein** 714  
**Hypocalcemia ethanol** 388  
**Hypoglycemia intracellular cesium** Issue 4 axxii  
**Hyponatremia porphyria aminolevulinate porphobilino-**  
 gen 363  
**Hypothalamus supraoptic neurosecretion** Issue 4 axxv  
**Hypothalamus tofisopam stress ulcer** 619  
**Hypothermia atrium supersensitivity sympathomimetic**  
 572  
**Hypothermia restraint shivering** 977

- Hypoxia hypobaric lung protein 714  
 Ileum contraction leukotriene 325  
 Immune response nutrition 290  
 Immunization airway bronchoconstrictor sensitivity 876  
 Infarct coronary artery occlusion 672  
 Innervation vagal inhibitory ferret Issue 4 avii  
 Inotropic heart venous pressure 213  
 Insulin adipose metab oxytocin 1418  
 Insulin heart function diabetes 516  
 Insulin hemorrhage somatostatin 237  
 Insulin plasma exercise training secretagogue 1194  
 Insulin receptor testis glucocorticosteroid 653  
 Insulin resistance receptor adipose 802  
 Insulin taurine heart metab 457  
 Interneuron muscle response mastication Issue 4 xxviii  
 Intestine contraction ionomycin calcium 535  
 Intestine diamine oxidase release histamine 349  
 Intestine electrolyte transport theophylline enterotoxin 1138  
 Intestine glucose transport sodium 1129  
 Intestine motility motilin release cholinergic 1042  
 Intestine unstirred water layer age 1501  
 Intracortical inhibition somatosensory neuron Issue 4 axii  
 Iodoantipyrine partition coeff brain development 595  
 Ionic strength muscle contraction 847  
 Ionomycin intestine contraction calcium 535  
 Isometric contraction muscle Issue 4 axxi  
 Isoniazid liver steatosis pyridoxine 478  
 Isoprenaline respiratory tract contraction 581  
 Isoproterenol atrium supersensitivity hypothermia 572  
 Isoproterenol coronary artery cAMP forskolin 1202  
 Isoproterenol kallikrein submandibular gland 449  
 Isoproterenol potential papillary muscle development 1509  
 Jaw reflex mastication 1122  
 Jejunoileal bypass rectum ATPase elec 512  
 Jejunum glucose transport sodium 1129  
 Kainate burst firing Issue 4 axii  
 Kallikrein submandibular gland isoproterenol 449  
 Ketamine uterus contraction calcium 1305  
 Kidney ammonium excretion acidosis 35  
 Kidney circulation endotoxin cirrhosis 1396  
 Kidney circulation hypertension norepinephrine 464  
 Kidney electrolyte transport diuretic 159  
 Kidney function atrial natriuretic factor 1462  
 Kidney norepinephrine ureter obstruction 131  
 Kidney tubule pressure nephrectomy prostaglandin 1317  
 Kidney vasoconstriction leukotriene 325  
 Kinin forming enzyme ovarian cycle 736  
 Kininogen plasma ovarian cycle 736  
 Laetili cyanide poisoning ascorbate 1426  
 Leukocyte mononuclear VIP receptor 664  
 Leukotriene kidney vasoconstriction 325  
 LH androgen formation ovary 472  
 LH release TRH 186  
 Limbic system oxytocin binding 989  
 Lipid inhibition duodenal vagotomy Issue 4 axxii  
 Lipid soly intestine absorption age 1501  
 Lipotropin formation pituitary ethanol 967  
 Liq chromatog amiodarone deethylamiodarone 245  
 Liq chromatog serotonin brain 530  
 Liver aldehyde dehydrogenase calcium carbimide 431 1025  
 Liver artery Issue 4 axv  
 Liver drug metabolizing enzyme chlorobenzene 1063  
 Liver embryo uroporphyrinogen decarboxylase chlorobiphenyl 105  
 Liver enzyme drug metab age 89  
 Liver ethanol steroid benzopyrene hydroxylase 808  
 Liver microsome amobarbital metab 67  
 Liver microsome enzyme phenelzine 524  
 Liver monooxygenase cytochrome P450 drug 983  
 Liver oxidase goat retinol 816  
 Liver porphyrin metab chem 546  
 Liver regeneration glucose metab starvation 222  
 Liver steatosis isoniazid pyridoxine 478  
 Liver triiodothyronine binding protein cytosol 1035  
 Lung damage methylinazole goat retinol 816  
 Lung goat methylinazole toxicity 395  
 Lung protein hypobaric hypoxia 714  
 Macroglobulin protein deficiency endogenous pyrogen 376  
 Magnesium ATPase diabetes protein Issue 4 axxvi  
 Mastication jaw reflex 1122  
 Medullary projection horseradish peroxidase Issue 4 aii  
 Melting barnacle muscle 1116  
 Membrane antrum smooth muscle property 927  
 Membrane conductance afferent spinal cord 626  
 Membrane potential calcium potassium ion HeLa 144  
 Membranous vesicle stomach calcium transport 699  
 Memorial lecture Stevenson color vision 1433  
 Mercaptopropionate GABAergic neurotransmission spinal 174  
 Mesenteric vessel angiotensin vasopressin 770  
 Mestranol alc fat liver 808  
 Methy aspartate burst firing Issue 4 axii  
 Methylinazole pneumotoxicity goat vitamin A 816  
 Methylinazole toxicity lung goat 395  
 Methylmercury metab toxicity brain 1487  
 Microelectrode potential 857  
 Microsome liver amobarbital metab 67  
 Microsome liver enzyme phenelzine 524  
 Mitochondria acetyl CoA transport calcium 154  
 Mixed function oxidase methylinazole 395  
 Mollusk gizzard contraction peptide 949  
 Molsidomine metabolite vasodilation nitroglycerin 1071  
 Monocrotaline heart serotonin 356  
 Mononuclear leukocyte VIP receptor 664  
 Monoxygenase cytochrome P450 liver drug 983  
 Monosaccharide transport muscular dystrophy 369  
 Motilin plasma vagus nerve 1289  
 Motilin release duodenum motility cholinergic 1042  
 Motoneuron calcium cat axii  
 Muscarinic receptor bladder urethra 61  
 Muscarinic receptor heart age 822  
 Muscle afferent horseradish peroxidase Issue 4 axiii  
 Muscle barnacle freezing melting 1116  
 Muscle blood anemia oxygen canine 178  
 Muscle contraction hypertonicity 847  
 Muscle detrusor contraction neurotransmitter 1236  
 Muscle detrusor neural myogenic control 1247  
 Muscle excitation contraction cGMP calcium 590  
 Muscle isometric contraction Issue 4 axxi  
 Muscle opiate receptor nalorphine 1361  
 Muscle papillary contraction metab calcium 1185  
 Muscle papillary potential isoproterenol development 1509  
 Muscle reinnervation rat Issue 4 aix  
 Muscle response interneuron mastication Issue 4 xxviii  
 Muscle sartorius fatigue pH Issue 4 axxv  
 Muscle smooth antrum membrane property 927  
 Muscle smooth contraction cinnarizine hypertension 1523  
 Muscle trachea relaxation parathormone fragment 1324  
 Muscular dystrophy artery contraction 182

- Muscular dystrophy monosaccharide transport hexokinase 369  
 Myocardial infarct transition zone microvascular 1516  
 Myocardium canine conduction 207  
 Myocardium function 920  
 Myocardium RNA formation hypertrophy development 341  
 Myogenic control detrusor muscle 1247  
 Myohemoglobinuric renal failure adenosine 567  
 Nalorphine muscle opiate receptor 1361  
 Natriuresis atrial electrolyte 996  
 Natriuretic factor atrial kidney function 1462  
 Natriuretic heart ext rat 127  
 Nephrectomy kidney tubule pressure prostaglandin 1317  
 Nerve adrenergic response starvation refeeding 1101  
 Nerve axon rat phospholipid Issue 4 aiii  
 Nerve kidney circulation hypertension 464  
 Nerve renal catecholamine natriuresis Issue 4 av  
 Nerve sciatic calcium efflux 1085  
 Nerve sympathetic noradrenaline release feedback 1197  
 Nerve vagus gastrointestinal tract hormone 1289  
 Nervous system autonomic ouabain heart 229  
 Nervous system sympathetic monocrotaline heart 356  
 Neural control detrusor muscle 1247  
 Neurohypophyseal neuron temp rat Issue 4 avii  
 Neuromuscular transmission Homarus cortisol 836  
 Neuron action potential verapamil 1467  
 Neuron CA3 burst firing Issue 4 axii  
 Neuron neurohypophyseal temp rat Issue 4 avii  
 Neuron somatosensory intracortical inhibition Issue 4 axii  
 Neuron trigeminal ganglion impedance Issue 4 ax  
 Neuroscience supraoptic hypothalamus Issue 4 axxv  
 Neurotensin stomach contraction 29  
 Neurotoxin detrusor muscle structure 1247  
 Neurotransmission GABAergic spinal mercaptopro-pionate 174  
 Neurotransmission hippocampus norepinephrine 841  
 Neurotransmission noradrenergic offspring amphetamine 766  
 Neurotransmitter brain nutrient control review 271  
 Neurotransmitter detrusor muscle contraction 1236  
 Newborn respiration heart rate periodicity 329  
 Nifedipine adenosine blood vessel 1057  
 Nitroglycerin artery relaxation prostaglandin 554  
 Nitroglycerin heart venous pressure 213  
 Nitroglycerin vasodilation molsidomine metabolite 1071  
 Nociceptive reflex spinal substance P 303  
 Noradrenaline atrium supersensitivity hypothermia 572  
 Noradrenaline calorigenesis cold adaptation 1177  
 Noradrenaline release sympathetic nerve feedback 1197  
 Noradrenaline vas deferens contraction calcium 97  
 Noradrenergic neurotransmission offspring amphetamine 766  
 Norepinephrine cerebral vessel histamine 756  
 Norepinephrine hippocampus neurotransmission 841  
 Norepinephrine hypertension potassium deficiency 1473  
 Norepinephrine kidney circulation hypertension 464  
 Norepinephrine kidney ureter obstruction 131  
 Norethindrone alc fat liver 808  
 Nutrient control brain neurotransmitter review 271  
 Nutrition gastrointestinal peptide review 282  
 Nutrition hypertension atherosclerosis review 260  
 Nutrition immune response 290  
 Nutrition xenobiotic metab review 295  
 Offspring noradrenergic neurotransmission amphetamine 766  
 Opiate receptor muscle nalorphine 1361  
 Opioid brain dopamine release 43  
 Opioid peptide gastric Issue 4 axviii  
 Organ distribution tetrachlorobiphenyl 1093  
 Organelle axon transport oscillation Issue 4 axxx  
 Ouabain heart electrophysiol sympathectomy vagotomy 229  
 Ovary androgen formation gonadotropin 472  
 Ovary culture FSH PGE2 608  
 Ovary follicle aromatase estrogen 507  
 Ovary kinin forming enzyme ovulation 736  
 Ovulation kinin forming enzyme 736  
 Oxidase diamine release intestine histamine 349  
 Oxidase liver age 89  
 Oxidase lung liver goat retinol 816  
 Oxidase mixed function methylindole 395  
 Oxygen blood anemia canine muscle 178  
 Oxygenation fetal vasopressin Issue 4 axxi  
 Oxytocin adipose metab insulin 1418  
 Oxytocin binding brain 989  
 Oxytocin uterus contraction estradiol 722  
 Pain substance P endorphin 303  
 Pancreas amylase forskolin calcium 1168  
 Pancreatic polypeptide plasma vagus nerve 1289  
 Papillary muscle contraction metab calcium 1185  
 Papillary muscle potential isoproterenol development 1509  
 Paraoxonase genetics serum Indian Inuit 336  
 Parathormone fragment heart rate 1162  
 Parathormone fragment trachea muscle relaxation 1324  
 Partition coeff iodoantipyrine brain development 595  
 Peptide gastrointestinal nutrition review 282  
 Peptide gizzard contraction Aplysia 949  
 Peptide opioid gastric Issue 4 axviii  
 Peripheral feedback muscle response Issue 4 xxviii  
 Peripheral nervous system axotomy Issue 4 axxiv  
 Permeability jejunum glucose transport 1129  
 Peroxidase horseradish efferent cervix Issue 4 axvi  
 Peroxidase horseradish muscle afferent Issue 4 axiii  
 Peroxidase horseradish transganglionic transport Issue 4 iii  
 PGE2 ovary culture 608  
 PGF2 uterus contraction estradiol 722  
 pH blood acidosis alkalois hypercapnia 166  
 pH sartorius muscle Issue 4 axxv  
 pH sartorius tetany 830  
 Phase locking respiration 599  
 Phenazine liver microsome enzyme 524  
 Phenylbutazone chronopharmacol 649  
 Phosphatase alk placenta calcium transport 1354  
 Phosphodiesterase cAMP heart exercise training 1017  
 Phosphodiesterase cGMP inhibitor submandibular 109  
 Phospholipase A2 endotoxin shock 561  
 Phospholipid rat nerve axon Issue 4 aiii  
 Phosphorus transport placenta ATPase phosphatase 1354  
 Piretanide kidney electrolyte transport 159  
 Pituitary endorphin formation ethanol 967  
 Pituitary tonin corticosteroid 201  
 Placenta calcium phosphorus transport 1354  
 Plasma bicarbonate acidosis corticosteroid 641  
 Plasma insulin exercise training secretagogue 1194  
 Plasma kinin forming enzyme ovulation 736  
 Plasma motilin vagus nerve 1289  
 Plasma protein deficiency endogenous pyrogen 376  
 Plasma vasopressin arterial stimulation Issue 4 axvi  
 Plasma vasopressin baroreceptor reflex 905  
 Plasma vasopressin fever 427  
 Platelet aggregation dihydroxyvitamin D3 954  
 Pneumotoxicity methylindole goat vitamin A 816

- Poisoning cyanide laetrile ascorbate 1426  
 Polymerase RNA myocardium hypertrophy development 341  
 Porphobilinogen porphyria hyponatremia 363  
 Porphyria hyponatremia aminolevulinate porphobilinogen 363  
 Porphyrin metab liver chem 546  
 Poststenotic dilatation rabbit aorta fenestration lamina 101  
 Potassium deficiency hypertension norepinephrine 1473  
 Potassium membrane potential ion HeLa 144  
 Potential isoproterenol papillary muscle development 1509  
 Potential microelectrode 857  
 Presynaptic receptor noradrenaline release 1197  
 Progesterone fetus membrane Issue 4 axxi  
 Progesterone formation ovary hormone 608  
 Prolactin release refractoriness sulphide 676  
 Proopiomelanocortin formation pituitary ethanol 967  
 Propranolol antihypertensive mechanism 693  
 Propranolol exercise aerobic function 1010  
 Prostaglandin estradiol uterus contraction 729  
 Prostaglandin formation amnion calcium 1089  
 Prostaglandin heart review 1207  
 Prostaglandin kidney tubule pressure nephrectomy 1317  
 Prostaglandin nitroglycerin artery relaxation 554  
 Prostanoid anaphylaxis airway 705  
 Protein binding silver metab 1391  
 Protein deficiency plasma endogenous pyrogen 376  
 Protein diabetes magnesium ATPase Issue 4 axxvi  
 Protein kindling calcium epilepsy Issue 4 aii  
 Protein lung hypobaric hypoxia 714  
 Protein metab diurnal rhythm child 72  
 Protein triiodothyronine binding liver cytosol 1035  
 Protein xenobiotic metab review 295  
 Proximal distal aorta abdomen elasticity 614  
 Prokinje fiber strophantidin toxicity calcium 1329  
 Pyramidal hippocampal layer CA3 Issue 4 axxii  
 Pyridoxine liver steatosis isoniazid 478  
 Pyrogen endogenous plasma protein deficiency 376  
 Quisqualate burst firing Issue 4 axii  
 Rabbit aorta fenestration lamina poststenotic dilatation 101  
 Radialis flexor carpi motor Issue 4 aiv  
 Rat muscle reinnervation Issue 4 aix  
 Rat natriuretic heart ext 127  
 Rat nerve axon phospholipid Issue 4 aiii  
 Rat temp neurohypophyseal neuron Issue 4 avii  
 Rat Zucker hyperinsulinemia Issue 4 av  
 Receptor adrenergic blood vessel 893  
 Receptor adrenergic heart potential development 1509  
 Receptor adrenergic starvation 1101  
 Receptor drug hormone review 191  
 Receptor histamine cerebral vessel norepinephrine 756  
 Receptor insulin resistance adipose 802  
 Receptor insulin testis glucocorticosteroid 653  
 Receptor muscarinic heart age 822  
 Receptor neurotransmitter bladder urethra 61  
 Receptor opiate muscle nalorphine 1361  
 Receptor presynaptic noradrenaline release 1197  
 Receptor VIP mononuclear leukocyte 664  
 Rectum ATPase jejunooileal bypass elec 512  
 Red blood cell geometry 646  
 Red cell sickling 941  
 Reflex baroreceptor carotid epinephrine 495  
 Reflex baroreceptor catecholamine 381  
 Reflex baroreceptor vasopressin plasma 905  
 Reflex gill Aplysia 743  
 Reflex jaw mastication 1122  
 Reflex siphon habituation Aplysia 749  
 Reflex spinal nociceptive substance P 303  
 Regeneration liver glucose metab starvation 222  
 Renal failure aminophylline 567  
 Renal nerve catecholamine natriuresis Issue 4 av  
 Respiration exercise ventilation hypcapnia Issue 4 axii  
 Respiration heart rate periodicity newborn 329  
 Respiration phase locking 599  
 Respiratory tract contraction isoprenaline forskolin 581  
 Restraint hypothermia shivering 977  
 Retrograde transport phospholipid axon Issue 4 aiii  
 Review acetaldehyde pharmacol 1  
 Review acid base equil 1444  
 Review commentary qual acid base 1442  
 Review fat nutrition 253  
 Review gastrointestinal peptide nutrition 282  
 Review nutrient control brain neurotransmitter 271  
 Review nutrition hypertension atherosclerosis 260  
 Review nutrition xenobiotic metab 295  
 Review prostaglandin heart 1207  
 Review receptor drug hormone 191  
 Review vasopressin blood pressure 1226  
 Rhythm diurnal urine urea child 72  
 RNA formation myocardium hypertrophy development 341  
 Saline natriuresis nerve catecholamine Issue 4 av  
 Salsolinol detn brain gas chromatog 632  
 Sarcolemma heart calcium timolol 240  
 Sarcoplasmic reticulum calcium heart diabetes 439  
 Sartorius muscle fatigue pH Issue 4 axxv  
 Sartorius tetany pH 830  
 SC 19886 aldosterone formation 23  
 Sciatic nerve calcium efflux 1085  
 Secretagogue plasma insulin exercise training 1194  
 Senescence intestine unstriated water layer 1501  
 Septohippocampus stimulation wet dog shake 1299  
 Serotonin brain liq chromatog 530  
 Serotonin carbohydrate metab Hymenolepis 137  
 Serotonin monocrotaline heart 356  
 Serotonin secretion growth hormone 95  
 Serum paraoxonase genetics Indian Inuit 336  
 Serum somatomedin diurnal variation Issue 4 axix  
 Shivering hypothermia restrain 977  
 Shock endotoxin phospholipase A2 561  
 Sickling red cell 941  
 Silver metab protein binding 1391  
 Siphon reflex habituation Aplysia 749  
 Sleep arousal fetus breathing drug 315  
 Smooth muscle membrane antrum property 927  
 Sodium channel cardiomyocyte 1312  
 Sodium gradient dissipation artery Issue 4 axx  
 Sodium jejunum glucose transport 1129  
 Sodium transport colon theophylline enterotoxin 1138  
 Somatomedin serum diurnal variation Issue 4 axix  
 Somatosensory neuron intracortical inhibition Issue 4 axii  
 Somatostatin hemorrhage glucagon insulin 237  
 Somatostatin secretion stomach enkephalin 657  
 Spinal cord afferent membrane conductance 626  
 Spinal cord cysteamine Issue 4 axxi  
 Spinal GABAergic neurotransmission mercaptopropionate 174  
 Spinal neuron excitability verapamil aspartate 1467  
 Spinal nociceptive reflex substance P 303  
 Spine glutamate binding site Issue 4 axiv  
 Starvation glucose metab liver regeneration 222  
 Starvation refeeding adrenergic nerve response 1101  
 Steatosis liver isoniazid pyridoxine 478  
 Stellate cervical ganglia transmission 1149

- Steroid benzopyrene hydroxylase liver ethanol 808  
 Stevenson memorial lecture color vision 1433  
 Stomach contraction leukotriene 325  
 Stomach contraction neuropeptin 29  
 Stomach membrane vesicle calcium transport 699  
 Stomach smooth muscle membrane property 927  
 Stomach somatostatin secretion enkephalin 657  
 Stress ACTH secretion cortisol 1281  
 Stress ulcer tofisopam hypothalamus 619  
 Strophanthidin toxicity Purkinje fiber calcium 1329  
 Submandibular cGMP phosphodiesterase inhibitor 109  
 Submandibular gland kallikrein isoproterenol 449  
 Substance P pain endorphin 303  
 Sulpiride prolactin release refractoriness 676  
 Supraoptic neurosecretion hypothalamus Issue 4 axxv  
 Surgery circulation vasopressin angiotensin 1494  
 Swine hypertension deoxycorticosterone mechanism 149  
 Sympathectomy vagotomy ouabain heart electrophysiol 229  
 Sympathetic heart rate decay 1374  
 Sympathetic nerve noradrenaline release feedback 1197  
 Sympathetic nervous system monocrotaline heart 356  
 Sympatholytic antihypertensive mechanism 693  
 Sympathomimetic atrium hypothermia supersensitivity 572  
 Synapse transmission thoracic autonomic ganglia 793  
 Tapeworm carbohydrate metab serotonin 137  
 Taurine heart metab insulin 457  
 Temp body alc exercise Issue 4 axxix  
 Temp neurohypophyseal neuron rat Issue 4 avii  
 Testis insulin receptor glucocorticosteroid 653  
 Testosterone androgen granulosa Issue 4 avi  
 Tetany sartorius pH 830  
 Tetrachlorobiphenyl detg gas chromatog 1093  
 Tetrahydrocannabinol hippocampus evoked potential 420  
 Theca androgen formation granulosa 472  
 Theophylline electrolyte transport colon 1138  
 Thermoregulation noradrenaline cold adaptation 1177  
 Thoracic aorta carotid artery 502  
 Thoracic aorta elastin anisotropy 539  
 Thoracic autonomic ganglia synapse transmission 793  
 Thyroid hormone heart contraction 1382  
 Thyroxine heart contraction 1382  
 Timolol heart sarcolemma calcium 240  
 Tolofisopam stress ulcer hypothalamus 619  
 Tolbutamide plasma insulin exercise training 1194  
 Tonin corticosteroid pituitary 201  
 Trachea muscle relaxation parathormone fragment 1324  
 Transganglionic transport horseradish peroxidase Issue 4 aii  
 Transport acetyl CoA mitochondria calcium 154  
 Transport axon Issue 4 axxx  
 Transport axon organelle oscillation Issue 4 axxx  
 Transport bicarbonate chloride bladder 1081  
 Transport calcium antrum membrane 927  
 Transport calcium phosphorus placenta 1354  
 Transport calcium sodium heart electrophysiol 1312  
 Transport calcium stomach membrane vesicle 699  
 Transport cation hypertension erythrocyte 1003  
 Transport electrolyte colon theophylline enterotoxin 1138  
 Treadmill exercise ventilation heart 120  
 TRH LH release 186  
 Trigeminal ganglion neuron impedance Issue 4 ax  
 Triiodothyronine binding protein liver cytosol 1035  
 Triiodothyronine heart contraction 1382  
 Trypsin heart electrophysiol culture 408  
 Ulcer stress tofisopam hypothalamus 619  
 Unstirred layer jejunum glucose transport 1129  
 Unstirred water layer intestine age 1501  
 Urea urine child diurnal rhythm 72  
 Urerter obstruction kidney norepinephrine 131  
 Urethra neurotransmitter receptor 61  
 Urine acetaldehyde formation ethanol 717  
 Urine catecholamine hypertension 888  
 Urine glomerular filtration 435  
 Urine urea child diurnal rhythm 72  
 Urinary porphyrinogen decarboxylase liver embryo chlorobi= phenyl 105  
 Uterus contraction estradiol 722  
 Uterus contraction estradiol prostaglandin 729  
 Uterus contraction ketamine calcium 1305  
 Vagal inhibitory innervation ferret Issue 4 avii  
 Vagotomy duodenal lipid inhibition Issue 4 axxxiii  
 Vagotomy epinephrine carotid occlusion 495  
 Vagotomy sympathectomy ouabain heart electrophysiol 229  
 Vagus nerve gastrointestinal tract hormone 1289  
 Vas deferens contraction calcium noradrenaline 97  
 Vasoconstriction kidney leukotriene 325  
 Vasodilation heart venous pressure 213  
 Vasodilation molsidomine metabolite nitroglycerin 1071  
 Vasopressin arginine blood pressure Issue 4 axvii  
 Vasopressin blood pressure review 1226  
 Vasopressin cerebrospinal fluid plasma fever 427  
 Vasopressin circulation regulation 1494  
 Vasopressin convulsion antivasopressor antagonist Issue 4 aiii  
 Vasopressin fetal oxygenation Issue 4 axxvi  
 Vasopressin mesenteric vessel 770  
 Vasopressin plasma arterial stimulation Issue 4 axvi  
 Vasopressin plasma baroreceptor reflex 905  
 Vein adrenergic receptor 893  
 Vein cerebral histamine norepinephrine 756  
 Velocity electromyogram pattern Issue 4 axviii  
 Venous pressure heart inotropism vasodilation 213  
 Ventilation heart exercise treadmill 120  
 Ventilation exercise hypocapnia Issue 4 axii  
 Ventricular vol overload 1274  
 Ventricular fibrillation atrioventricular conduction 1079  
 Verapamil adriamycin cardiotoxicity 1050  
 Verapamil neuron action potential 1467  
 VIP receptor mononuclear leukocyte 664  
 Vision color Stevenson memorial lecture 1433  
 Vitamin A goat methylindole pneumotoxicity 816  
 Vol expansion acetazolamide bicarbonaturia 911  
 Water layer unstirred intestine age 1501  
 Wet dog shake septohippocampus 1299  
 Xenobiotic metab nutrition review 295  
 Zucker rat hyperinsulinemia Issue 4 av

**CANADIAN JOURNAL  
OF PHYSIOLOGY AND  
PHARMACOLOGY**

**JOURNAL CANADIEN DE  
PHYSIOLOGIE ET PHARMACOLOGIE**

**VOLUME 61, 1983**

**Author Index / Index des auteurs**

<b>Agwu, D.E.</b>		<b>Armstrong, P.W.</b>	
Evidence for 1,25-dihydroxycholecalciferol (1,25-(OH) <sub>2</sub> D <sub>3</sub> ) as a proaggregating agent in rat and human platelets		Rapid high-performance liquid chromatographic analysis of amiodarone and <i>N</i> -desethyl-amiodarone in serum	
D.E. AGWU and B.J. HOLUB	954	J.F. BRIEN, S. JIMMO, and P.W. ARMSTRONG	245
<b>Anderson, G.H.</b>		Investigation of the role of prostaglandins in nitroglycerin-induced relaxation of isolated rabbit blood vessels	
Nutrient control of brain neurotransmitter synthesis and function		BRIAN M. BENNETT, JOYCE A. MOFFAT,	
G. HARVEY ANDERSON and JANICE L. JOHNSTON	271	PAUL W. ARMSTRONG, and GERALD S. MARKS	554
<b>Andrews, P.J.</b>		<b>Ary, T.E.</b>	
Gas-liquid chromatographic determination of salsolinol in the striatum of rat brain during the calcium carbimide-ethanol interaction		Nalorphine: actions at an opiate receptor on frog skeletal muscle fibers	
J.F. BRIEN, P.J. ANDREWS, C.W. LOOMIS, and J.A. PAGE	632	THOMAS E. ARY and GEORGE B. FRANK	1361
<b>Antolik, E.K.</b>		<b>Atitsé-Gbeassor, A.</b>	
Spontaneously hypertensive rats exhibit an enhanced mydriatic response to clonidine. Evidence for enhanced sensitivity of central α <sub>2</sub> -adrenoceptors		Inhibitory effect of phenelzine on oxidative microsomal enzyme systems of rat liver	
G.G. YARBROUGH, D.A. TAYLOR, E.K. ANTOLIK, and E.L. ROBINSON	764	P.M. BÉLANGER and A. ATITSÉ-GBEASSOR	524
<b>Argenzi, R.A.</b>		<b>Atwood, H.L.</b>	
Effect of theophylline and heat-stable enterotoxin of <i>Escherichia coli</i> on transcellular and paracellular ion movement across isolated porcine colon		Lobster muscle and synapse respond to cortisol, a vertebrate hormone	
R.A. ARGENZIO and S.C. WHIPP	1138	D. DIXON and H.L. ATWOOD	836
<b>Armour, J.A.</b>		<b>Aucéllo, J. G.</b>	
Canine coronary venous pressures: responses to positive inotropism and vasodilation		Inhibitory effects of ketamine on the isolated uteri of the rat: evidence for the mechanism of action	
G.A. KLASSEN and J.Á. ARMOUR	213	JOÃO BATISTA CALIXTO, JOSÉ GILBERTO AUCÉLIO, and DANILO FREIRE DUARTE	1305
Synaptic transmission in thoracic autonomic ganglia of the dog		<b>Austin, T.</b>	
J.A. ARMOUR	793	FMRamide effects on spontaneous and induced contractions of the anterior gizzard in <i>Aplysia</i>	
Synaptic transmission in the chronically decentralized middle cervical and stellate ganglia of the dog		TOM AUSTIN, SAM WEISS, and KEN LUKOWIAK	949
J.A. ARMOUR	1149	<b>Azzarolo, A.M.</b>	
Granulosa cell stimulation of thecal androgen synthesis		Effects of atrial natriuretic factor on renal handling of water and electrolytes in rats	
ADRIANA LISCHINSKY and DAVID T. ARMSTRONG	472	R. KEELER and ANA MARIA AZZAROLO	996
Involvement of estrogens in the regulation of granulosa cell aromatase activity		<b>Baines, A.D.</b>	
S.A.J. DANIEL and D.T. ARMSTRONG	507	Natriuretic effect of atrial extract on isolated perfused rat kidney	
Changes in responsiveness of rat granulosa cells to prostaglandin E <sub>2</sub> and follicle-stimulating hormone during culture		A.D. BAINES, A.J. DEBOLD, and H. SONNENBERG	1462
A.K. GOFF and D.T. ARMSTRONG	608	<b>Balazs, T.</b>	
Age-dependent changes in electrophysiologic characteristics of fast and slow action potentials in rat papillary muscle			
MICHIO KOJIMA, NICK SPERELAKIS, GORDON JOHNSON, STEWART EHREICH, and TIBOR BALAZS	1509		

<b>Barney, C.C.</b>	
The effects of food deprivation on $\beta$ -adrenergic responsiveness in male rats	
CHRISTOPHER C. BARNEY, DANIEL A. RUTT, and MICHAEL J. KATOVICH	1101
<b>Barrowman, J.A.</b>	
Studies of the absorption and enterohepatic circulation of 7,12-dimethylbenz[a]anthracene in the rat	
J.M. LAHER, G.A. CHERNENKO, and J.A. BARROWMAN	1368
<b>Basu, T.K.</b>	
Effects of protein malnutrition and ascorbic acid levels on drug metabolism	
TAPAN K. BASU	295
High-dose ascorbic acid decreases detoxification of cyanide derived from amygdalin (laetrile): studies in guinea pigs	
TAPAN K. BASU	1426
<b>Baumber, J.S.</b>	
Changes in left ventricular dimensions and performance resulting from acute and chronic volume overload in the conscious dog	
ISRAEL BELENKIE, JOHN S. BAUMBER, and ALFRED RADEMAKER	1274
<b>Beamish, R.E.</b>	
Stimulation of calcium pump activity in heart sarcolemma by timolol	
ANDRE DZURBA, PALLAB K. GANGULY, ROBERT E. BEAMISH, and NARANJAN S. DHALLA	240
<b>Bechbache, R.R.</b>	
The changes in ventilation and heart rate at the start of treadmill exercise	
JAMES DUFFIN and RAFIK R. BECHBACHE	120
<b>Bédard, S.</b>	
Properties of triiodothyronine-binding proteins in liver cytosol of rat	
D. BELLABARBA, S. BÉDARD, and J.-G. LEHOUX	1035
<b>Bélanger, P.M.</b>	
Inhibitory effect of phenelzine on oxidative microsomal enzyme systems of rat liver	
P.M. BÉLANGER and A. ATTISÉ-GBEASSOR	524
Chronopharmacological studies of phenylbutazone in the rat	
G. LABRECQUE, P.M. BÉLANGER, and F.M. DORÉ	649
<b>Belbeck, L.W.</b>	
Hypobaric hypoxia does not affect lung fluid or protein exchange in awake adult sheep at rest	
G. COATES, L.W. BELBECK, and G.W. GRAY	714
<b>Belenkie, I.</b>	
Changes in left ventricular dimensions and performance resulting from acute and chronic volume overload in the conscious dog	
ISRAEL BELENKIE, JOHN S. BAUMBER, and ALFRED RADEMAKER	1274
<b>Bell, R.</b>	
Effect of protein deficiency on endogenous pyrogen-mediated acute phase protein responses	
R. BELL and L. HOFFMAN-GOETZ	376
<b>Bellabarba, D.</b>	
Properties of triiodothyronine-binding proteins in liver cytosol of rat	
D. BELLABARBA, S. BÉDARD, and J.-G. LEHOUX	1035
<b>Bellward, G.D.</b>	
Effects of chronic mestranol and (or) norethindrone treatment on ethanol-associated decreases in hepatic benzo[a]pyrene hydroxylase activity and increases in central vein fat accumulation in the female Wistar rat	
B.L. WARREN and G.D. BELLWARD	808
<b>Nonadditive effects of combined <i>in vivo</i> hepatic microsomal enzyme inducers in the Wistar rat</b>	
LARRY S. GONTOVNICK, GEOFFREY SUNAHARA, and GAIL D. BELLWARD	983
<b>Benjamin, A.M.</b>	
Calcium-dependent release of acetyl-coenzyme A from liver mitochondria	
A.M. BENJAMIN, CH.R.K. MURTHY, and J.H. QUASTEL	154
<b>Bennett, B.M.</b>	
Investigation of the role of prostaglandins in nitroglycerin-induced relaxation of isolated rabbit blood vessels	
BRIAN M. BENNETT, JOYCE A. MOFFAT, PAUL W. ARMSTRONG, and GERALD S. MARKS	554
<b>Bercovici, M.</b>	
Effect of acute changes in the $P_{CO_2}$ on acid-base parameters in normal dogs and dogs with metabolic acidosis or alkalis	
M. BERCOVICI, C.B. CHEN, M.B. GOLDSTEIN, B.J. STINEBAUGH, and M.L. HALPERIN	166
<b>Bergland, R.</b>	
Changes in cerebrospinal fluid and plasma vasopressin in the febrile sheep	
NORMAN W. KASTING, DANIEL B. CARR, JOSEPH B. MARTIN, HOWARD BLUME, and RICHARD BERGLAND	427
<b>Bernaerts, C.</b>	
Specific binding of vasoactive intestinal peptide to human circulating mononuclear cells	
C.A. OTTAWAY, C. BERNAERTS, B. CHAN, and G.R. GREENBERG	664
<b>Bertrand, J.</b>	
Postreceptorial refractoriness of prolactin release mechanisms	
R. COLLU, J.R. DUCHARME, D. ELJARMAK, A.M. MARCHISIO, J. BERTRAND, I. SABBAGH, P. GUILLAUMOT, and H. COHEN	676
<b>Bidani, A.K.</b>	
Aminophylline ameliorates glycerol-induced acute renal failure in rats	
A.K. BIDANI and P.C. CHURCHILL	567
<b>Blume, H.</b>	
Changes in cerebrospinal fluid and plasma vasopressin in the febrile sheep	
NORMAN W. KASTING, DANIEL B. CARR, JOSEPH B. MARTIN, HOWARD BLUME, and RICHARD BERGLAND	427
<b>Bolger, G.T.</b>	
The action of the ionophore ionomycin in guinea-pig intestinal smooth muscle	
G.T. BOLGER, C.R. TRIGGLE, and D.J. TRIGGLE	535

<b>Bouvier, M.</b>	
Selective activation of the adrenal medulla during acute bilateral carotid occlusion and its modulation by $\alpha$ -adrenergic receptors in the rat	
MICHEL BOUVIER and JACQUES DE CHAMPLAIN	381
<b>Box, B.M.</b>	
Nutrition and hypertension	
GORDON J. MOGENSON, BLANCHE M. BOX, and DIANA J. PHILBRICK	260
<b>Bray, T.M.</b>	
Effect of dietary vitamin A on the mixed function oxidases and the pneumotoxicity of 3-methylindole in goats	
F.E. BURLEY and T.M. BRAY	816
<b>Breeze, R.G.</b>	
Effects of mixed-function oxidase inducers and inhibitors on cytochrome P-450 content, gel electrophoresis profiles, and 3-methylindole-induced lung toxicity in goats	
CECILIA T. LEUNG, JAMES R. CARLSON, and ROGER G. BREEZE	395
<b>Bressler, B.H.</b>	
Hypertonicity and force development in frog skeletal muscle fibres	
PETER C. VAUGHAN, BERNARD H. BRESSLER, LAUREEN A. DUSIK, and MARTIN J. TROTTER	847
<b>Brien, J.</b>	
Regional release of [ $^3$ H]dopamine from rat brain <i>in vitro</i> : effects of opioids on release induced by potassium, nicotine, and L-glutamic acid	
MARC MARIEN, JAMES BRIEN, and KHEM JHAMANDAS	43
<b>Brien, J.F.</b>	
Pharmacology of acetaldehyde	
J.F. BRIEN and C.W. LOOMIS	1
Rapid high-performance liquid chromatographic analysis of amiodarone and <i>N</i> -desethyl-amiodarone in serum	
J.F. BRIEN, S. JIMMO, and P.W. ARMSTRONG	245
Specificity of hepatic aldehyde dehydrogenase inhibition by calcium carbimide (calcium cyanamide) in the rat	
C.W. LOOMIS and J.F. BRIEN	431
Gas-liquid chromatographic determination of salsolinol in the striatum of rat brain during the calcium carbimide-ethanol interaction	
J.F. BRIEN, P.J. ANDREWS, C.W. LOOMIS, and J.A. PAGE	632
Inhibition of hepatic aldehyde dehydrogenases in the rat by calcium carbimide (calcium cyanamide)	
C.W. LOOMIS and J.F. BRIEN	1025
Gas-liquid chromatographic determination of the distribution of 3,3',4,4'-tetrachlorobiphenyl in the adult female rat following short-term oral administration	
D.W. CLARKE, J.F. BRIEN, K. NAKATSU, H. TAUB, W.J. RACZ, and G.S. MARKS	1093
<b>Broadley, K.J.</b>	
Dissociation constants ( $K_A$ ) and relative efficacies of sympathomimetic amines in isolated atria during hypothermia-induced supersensitivity	
KENNETH J. BROADLEY and JOHN H. MCNEILL	572
<b>Brown, J.C.</b>	
The gastrointestinal peptides and nutrition	
J.C. BROWN, C.H.S. MCINTOSH, and R.A. PEDERSON	282
Enkephalinergic control of somatostatin secretion from the perfused rat stomach	
C.H.S. MCINTOSH, Y.N. KWOK, T. MORDHORST, E. NISHIMURA, R.A. PEDERSON, and J.C. BROWN	657
<b>Brunkhorst, R.</b>	
Dose related effects of furosemide, bumetanide, and piretanide on the thick ascending limb function in the rat	
HANS-ULRICH GÜTSCHE, KLAUS MÜLLER-OTT, REINHARD BRUNKHORST, and WALTER NIEDERMAYER	159
<b>Bryant, S.E.</b>	
Chemical sympathectomy and serotonin inhibition reduce monocrotaline-induced right ventricular hypertrophy in rats	
A. TUCKER, S.E. BRYANT, H.H. FROST, and N. MIGALLY	356
<b>Buncel, E.</b>	
Methylmercury distribution, metabolism, and neurotoxicity in the mouse brain	
LAURIE J.S. VANDEWATER, WILLIAM J. RACZ, ALBERT R. NORRIS, and ERWIN BUNCLE	1487
<b>Burka, J.F.</b>	
Inhibition of antigen and calcium ionophore A23187 induced contractions of guinea pig airways by isoprorenaline and forskolin	
JOHN F. BURKA	581
Effects of immunological sensitization on the responses and sensitivity of guinea pig airways to bronchoconstrictors. Modulation by selective inhibition of arachidonic acid metabolism	
MAAN H. SAAD and JOHN F. BURKA	876
<b>Burley, F.E.</b>	
Effect of dietary vitamin A on the mixed function oxidases and the pneumotoxicity of 3-methylindole in goats	
F.E. BURLEY and T.M. BRAY	816
<b>Burmeister, W.E.</b>	
Comparison of infarct size produced by coronary artery occlusion in purebred beagle and mixed-breed dogs	
WILLIAM E. BURMEISTER and ROBERT D. REYNOLDS	672
<b>Buu, N.T.</b>	
Changes of catecholamines in central and peripheral tissues and in the urines of deoxycorticosterone-salt hypertensive rats	
NGUYEN T. BUU, OTTO KUCHEL, and JACQUES GENEST	888
<b>Caillé, J.-P.</b>	
Freezing point and melting point of barnacle muscle fibers	
JEAN-PIERRE CAILLÉ	1116
<b>Cain, S.M.</b>	
Oxygen uptake and blood flow in canine skeletal muscle during moderate and severe anemia	
C.K. CHAPLER and S.M. CAIN	178
<b>Calixto, J.B.</b>	
Inhibitory effects of ketamine on the isolated uteri of the rat: evidence for the mechanism of action	
JOÃO BATISTA CALIXTO, JOSÉ GILBERTO AUCÉLIO, and DANILÓ FREIRE DUARTE	1305

<b>Cantin, M.</b> Kallikrein concentration in submandibular glands of rats chronically treated with isoproterenol JOLANTA GUTKOWSKA, GAËTAN THIBAULT, MARC CANTIN, RAUL GARCIA, and JACQUES GENEST	449	<b>Carson, D.L.</b> Absence of supernormal conduction in canine myocardium D. LEIGH CARSON and PETER E. DRESEL	207
<b>Capek, R.</b> GABA-mediated responses are not selectively depressed by 3-mercaptopropionic acid in the spinal cord M.F. DAVIES, B. ESPLIN, and R. CAPEK	174	<b>Cavalheiro, E.A.</b> Studies of wet-dog shake behavior induced by septohippocampal stimulation in the rat G. LE GAL LA SALLE, E.A. CAVALHEIRO, S. FELDBLUM, and D. MARESOVA	1299
<b>Capron, M.H.</b> Action directe des antagonistes des minéralocorticoïdes sur la biosynthèse de l'aldostéron: activités comparées de plusieurs nouveaux composés P. NETCHITAILO, I. PERROTEAU, C. DELARUE, F. LEBOULENGER, M.H. CAPRON et H. VAUDRY	23	<b>Challice, C.E.</b> The development of the early atrioventricular conduction system in the embryonic heart Sz. VIRÁGH and C.E. CHALLICE	775
<b>Cardinal, J.</b> Release of epinephrine during carotid artery occlusion following vagotomy in dogs SERGE CARRIÈRE, SYLVAIN DEMASSIEUX, JEAN CARDINAL, and CHRISTIAN LE GRIMELLEC	495	<b>Challis, J.R.G.</b> Estradiol modulation of ovine uterine activity R. WINDMOLLER, S.J. LYÉ, and J.R.G. CHALLIS	722
<b>Cardoso, M.</b> Bicarbonaturic effect of acetazolamide in the dog: the influence of graded volume expansion ANDRÉ GOUGOUX, PATRICK VINAY, MARCELLE DUPLAINE, DIANE LANTHIER, MANUEL CARDOSO, and GUY LEMIEUX	911	<b>Modulation of ovine myometrial activity by estradiol-17<math>\beta</math>. The possible involvement of prostaglandins</b> S.J. LYÉ, CHER L. SPRAGUE, and J.R.G. CHALLIS	729
<b>Carlen, P.L.</b> $\Delta^9$ -Tetrahydrocannabinol and cannabidiol: dose-dependent effects on evoked potentials in the hippocampal slice P.W. KUJTAN, P.L. CARLEN, and B.M. KAPUR	420	<b>Prostaglandin synthesis by human amnion is dependent upon extracellular calcium</b> DAVID M. OLSON, MARY ANNE OPAVSKY, and JOHN R.G. CHALLIS	1089
<b>Carlson, J.R.</b> Effects of mixed-function oxidase inducers and inhibitors on cytochrome P-450 content, gel electrophoresis profiles, and 3-methylindole-induced lung toxicity in goats CECILIA T. LEUNG, JAMES R. CARLSON, and ROGER G. BREEZE	395	<b>Chan, B.</b> Specific binding of vasoactive intestinal peptide to human circulating mononuclear cells C.A. OTTAWAY, C. BERNAERTS, B. CHAN, and G.R. GREENBERG	664
<b>Carr, D.B.</b> Changes in cerebrospinal fluid and plasma vasopressin in the febrile sheep NORMAN W. KASTING, DANIEL B. CARR, JOSEPH B. MARTIN, HOWARD BLUME, and RICHARD BERGLAND	427	<b>Chan, C.-C.</b> Effects of desmethylimipramine and normetanephrine on calorigenic response and plasma noradrenaline concentration in warm- and in cold-acclimated rats exposed to cold CHI-CHUNG CHAN and FLORENT DEPOCAS	1177
<b>Carrer, H.F.</b> Noradrenergic modulation of neuronal transmission in the offspring of amphetamine-treated rats OSCAR A. RAMÍREZ and HUGO F. CARRER	766	<b>Chan, J.S.D.</b> Chronic ethanol treatment alters the biosynthesis of $\beta$ -endorphin by the rat neurointermediate lobe CHRISTINA GIANOULAKIS, JOHN S.D. CHAN, HAROLD KALANT, and MICHEL CHRÉTIEN	967
<b>Carrière, S.</b> Release of epinephrine during carotid artery occlusion following vagotomy in dogs SERGE CARRIÈRE, SYLVAIN DEMASSIEUX, JEAN CARDINAL, and CHRISTIAN LE GRIMELLEC	495	<b>Chandra, R.K.</b> Nutrition and immune responses R.K. CHANDRA	290
<b>Carro-Ciampi, G.</b> Paraoxonase phenotype distribution in Canadian Indian and Inuit populations GIOVANNA CARRO-CIAMPI, SIDNEY GRAY, and WERNER KALOW	336	<b>Chapler, C.K.</b> Oxygen uptake and blood flow in canine skeletal muscle during moderate and severe anemia C.K. CHAPLER and S.M. CAIN	178
		<b>Chen, C.B.</b> Effect of acute changes in the $P_{CO_2}$ on acid-base parameters in normal dogs and dogs with metabolic acidosis or alkalosis M. BERCOVICI, C.B. CHEN, M.B. GOLDSTEIN, B.J. STINEBAUGH, and M.L. HALPERIN	166
		<b>Chernenko, G.A.</b> Studies of the absorption and enterohepatic circulation of 7,12-dimethylbenz[a]anthracene in the rat J.M. LAHER, G.A. CHERNENKO, and J.A. BARROWMAN	1368

<b>Chernick, V.</b>		
Drug-induced changes in fetal breathing activity and sleep state ARNO H. JANSEN, S. IOFFE, and V. CHERNICK	315	
<b>Chiu, S.</b>		
Cholinergic control mechanisms for immunoreactive motilin release and motility in the canine duodenum J.E.T. FOX, E.E. DANIEL, J. JURY, N.S. TRACK, and S. CHIU	1042	
<b>Chrétien, M.</b>		
Chronic ethanol treatment alters the biosynthesis of $\beta$ -endorphin by the rat neurointermediate lobe CHRISTINA GIAOUAKIS, JOHN S.D. CHAN, HAROLD KALANT, and MICHEL CHRÉTIEN	967	
<b>Churchill, P.C.</b>		
Aminophylline ameliorates glycerol-induced acute renal failure in rats A.K. BIDANI and P.C. CHURCHILL	567	
<b>Ciccone, C.D.</b>		
Effects of phenoxybenzamine, metoprolol, captopril, and meclofenamate on cardiovascular function in deoxycorticosterone acetate hypertensive Yucatan miniature swine CHARLES D. CICCOME and EDWARD J. ZAMBRASKI	149	
<b>Clarke, D.W.</b>		
Gas - liquid chromatographic determination of the distribution of 3,3',4,4'-tetrachlorobiphenyl in the adult female rat following short-term oral administration D.W. CLARKE, J.F. BRIEN, K. NAKATSU, H. TAUB, W.J. RACZ, and G.S. MARKS	1093	
<b>Cleave, J.</b>		
Comparison of longitudinal elastic properties of proximal and distal strips of aorta-branch junctions from the abdominal aorta of sheep JANET CLEAVE and MARGOT R. ROACH	614	
<b>Coates, G.</b>		
Hypobaric hypoxia does not affect lung fluid or protein exchange in awake adult sheep at rest G. COATES, L.W. BELBECK, and G.W. GRAY	714	
<b>Cochrane, A.W.</b>		
Specific binding of [ <sup>3</sup> H]oxytocin in the female rat brain B.M. FERRIER, S.A. McCLOARRY, and A.W. COCHRANE	989	
<b>Cohen, H.</b>		
Postreceptorial refractoriness of prolactin release mechanisms R. COLLU, J.R. DUCHARME, D. ELJARMAK, A.M. MARCHISIO, J. BERTRAND, I. SABBAGH, P. GUILLAUMOT, and H. COHEN	676	
<b>Cole, S.P.C.</b>		
Patterns of porphyrin accumulation in response to chemicals in chick embryo liver cells G.S. MARKS, S.B. FOLLOWS, D.T. ZELT, and S.P.C. COLE	546	
<b>Colizza, D.</b>		
A comparative study of collagenase- and trypsin-dissociated embryonic heart cells: reaggregation, electrophysiology, and pharmacology DIANE COLIZZA, MICHAEL R. GUEVARA, and ALVIN SHRIER	408	
<b>Collu, R.</b>		
Postreceptorial refractoriness of prolactin release mechanisms R. COLLU, J.R. DUCHARME, D. ELJARMAK, A.M. MARCHISIO, J. BERTRAND, I. SABBAGH, P. GUILLAUMOT, and H. COHEN	676	
<b>Constantopoulos, G.</b>		
Effect of a potassium-deficient diet on arterial blood pressure, plasma and tissue cations, and tissue norepinephrine in the hypertensive dog RAUL GARCIA, GEORGES CONSTANTOPoulos, JOLANTA GUTKOWSKA, and JACQUES GENEST	1473	
<b>Cowan, J.S.</b>		
Feedback suppression of ACTH secretion by cortisol in dogs: lags after large signals equal those following very small signals JOHN S. COWAN and ROSS A. LAYBERRY	1281	
<b>Cowan, W.</b>		
Structural bases for neural and myogenic control of human detrusor muscle E.E. DANIEL, W. COWAN, and V.P. DANIEL	1247	
<b>Cowan, W.D.</b>		
Human female bladder and its noncholinergic contractile function W.D. COWAN and E.E. DANIEL	1236	
<b>Cukerman, E.</b>		
Growth hormone stimulates serotonin secretion into the hepatic portal circulation M.N. HUSSAIN, A. SIREK, M. DVORAK, E. CUKERMAN, and O.V. SIREK	95	
<b>Cummings, J.R.</b>		
<i>In vitro</i> studies on cetamolol, a new potent cardioselective $\beta$ -adrenoceptor blocking agent with intrinsic sympathomimetic activity D. GRIMES, M. STERN, A. WOJDAN, and J.R. CUMMINGS	1109	
<b>Curro, F.A.</b>		
Characteristics of postsynaptic alpha <sub>1</sub> and alpha <sub>2</sub> adrenergic receptors in canine vascular smooth muscle FREDERICK A. CURRO and STAN GREENBERG	893	
<b>Dadufalza, V.D.</b>		
Aging: its influence on the intestinal unstirred water layer thickness, surface area, and resistance in the unanesthetized rat DANIEL HOLLANDER and VIOLETTA D. DADUFALZA	1501	
<b>Daigle, M.</b>		
Determination of 5-hydroxytryptophan, 5-hydroxytryptamine, and 5-hydroxyindoleacetic acid in 20 rat brain nuclei using liquid chromatography with electrochemical detection THÉRÈSE DI PAOLO, ANDRÉ DUPONT, PIERRE SAVARD, and MICHEL DAIGLE	530	
<b>Daniel, E.E.</b>		
Uptake and release of calcium by canine gastric corpus smooth muscle plasma membrane enriched fraction YASUSHI SAKAI, ASHOK K. GROVER, JO-ANN E.T. FOX, and EDWIN E. DANIEL	699	
Studies of the mechanism of passive anaphylaxis in human airway smooth muscle C. DAVIS, T.R. JONES, and E.E. DANIEL	705	

<b>Cholinergic control mechanisms for immunoreactive motilin release and motility in the canine duodenum</b>	
J.E.T. FOX, E.E. DANIEL, J. JURY, N.S. TRACK, and S. CHIU	1042
<b>Human female bladder and its noncholinergic contractile function</b>	
W.D. COWAN and E.E. DANIEL	1236
<b>Structural bases for neural and myogenic control of human detrusor muscle</b>	
E.E. DANIEL, W. COWAN, and V.P. DANIEL	1247
<b>Daniel, S.A.J.</b>	
Involvement of estrogens in the regulation of granulosa cell aromatase activity	
S.A.J. DANIEL and D.T. ARMSTRONG	507
<b>Daniel, V.P.</b>	
Structural bases for neural and myogenic control of human detrusor muscle	
E.E. DANIEL, W. COWAN, and V.P. DANIEL	1247
<b>Davies, M.F.</b>	
GABA-mediated responses are not selectively depressed by 3- $\alpha$ -mercaptopropionic acid in the spinal cord	
M.F. DAVIES, B. ESPLIN, and R. CAPEK	174
<b>Davis, C.</b>	
Studies of the mechanism of passive anaphylaxis in human airway smooth muscle	
C. DAVIS, T.R. JONES, and E.E. DANIEL	705
<b>DeBold, A.J.</b>	
Natriuretic activity of extracts obtained from hearts of different species and from various rat tissues	
ADOLFO J. DEBOLD and TOMAS A. SALERNO	127
Natriuretic activity of extracts obtained from hearts of different species and from various rat tissues	
A. BAINES, A.J. DEBOLD, and H. SONNENBERG	1462
<b>de Champlain, J.</b>	
Selective activation of the adrenal medulla during acute bilateral carotid occlusion and its modulation by $\alpha$ -adrenergic receptors in the rat	
MICHEL BOUVIER and JACQUES DE CHAMPLAIN	381
<b>Delarue, C.</b>	
Action directe des antagonistes des minéralocorticoïdes sur la biosynthèse de l'aldostéron: activités comparées de plusieurs nouveaux composés	
P. NETCHITAILO, I. PERROTEAU, C. DELARUE, F. LEBOULENGER, M.H. CAPRON et H. VAUDRY	23
<b>Demassieux, S.</b>	
Release of epinephrine during carotid artery occlusion following vagotomy in dogs	
SERGE CARRIÈRE, SYLVAIN DEMASSIEUX, JEAN CARDINAL, and CHRISTIAN LE GRIMELLEC	495
<b>Denomme, M.A.</b>	
Polychlorinated benzene and phenol congeners as inducers of rat hepatic drug-metabolizing enzymes in immature male Wistar rats	
M.A. DENOMME, B. LEECE, J. GYORKOS, K. HOMONKO, and S. SAFE	1063
<b>Depocas, F.</b>	
Effects of desmethylimipramine and norepinephrine on calorogenic response and plasma noradrenaline concentration in warm- and in cold-acclimated rats exposed to cold	
CHI-CHUNG CHAN and FLORENT DEPOCAS	1177
<b>Derby, J.-A.</b>	
Effects of age on muscarinic cholinergic receptors in rat myocardium	
NIANOOR NARAYANAN and JO-ANNE DERBY	822
<b>Derehwany, L.O.</b>	
Placental calcium and phosphorus transfer in the guinea pig: lack of effect of modulators of Ca-ATPase and alkaline phosphatase activity	
H.G. MCKERCHER, L.O. DEREHWANY, and I.C. RADDE	1354
<b>Desai, C.D.</b>	
Effect of aging on response to induction and metabolizing activity of the hepatic mixed-function oxidase system of male Sprague-Dawley rats	
DANIEL S. SITAR and CHETAN D. DESAI	89
<b>Desai, K.S.</b>	
Receptor and postreceptor insulin resistance induced by <i>in vivo</i> hyperinsulinemia	
C. MARTIN, K.S. DESAI, and G. STEINER	802
<b>Dhalla, N.S.</b>	
Stimulation of calcium pump activity in heart sarcolemma by timolol	
ANDRE DZURBA, PALLAB K. GANGULY, ROBERT E. BEAMISH, and NARANJAN S. DHALLA	240
<b>Physiological and pathophysiological aspects of cardiac prostaglandins</b>	
MORRIS KARMAZYN and NARANJAN S. DHALLA	1207
<b>Diamant, N.E.</b>	
Vagal control of migrating motor complex-related peaks in canine plasma motilin, pancreatic polypeptide, and gastrin	
11700 K.E. HALL, G.R. GREENBERG, T.Y. EL-SHARKAWY, and N.E. DIAMANT	1289
<b>Diamond, J.</b>	
Comparison of the effects of forskolin and isoproterenol on cyclic AMP levels and tension in bovine coronary artery	
RAJU V.K. VEGESNA and JACK DIAMOND	1202
<b>Di Paolo, T.</b>	
Determination of 5-hydroxytryptophan, 5-hydroxytryptamine, and 5-hydroxyindoleacetic acid in 20 rat brain nuclei using liquid chromatography with electrochemical detection	
THÉRÈSE DI PAOLO, ANDRÉ DUPONT, PIERRE SAVARD, and MICHEL DAIGLE	530
<b>Dixon, D.</b>	
Lobster muscle and synapse respond to cortisol, a vertebrate hormone	
D. DIXON and H.L. ATWOOD	836
<b>Dolcini, B.M.</b>	
Evidence for an inotropic positive action of cGMP during excitation-contraction coupling in frog sartorius muscle	
L. MANCINELLI, G. FANÒ, L. FERRONI, T. SECCA, and B.M. DOLCINI	590

<b>Doré, F.M.</b>		
Chronopharmacological studies of phenylbutazone in the rat G. LABRECQUE, P.M. BÉLANGER, and F.M. DORÉ	649	
<b>Doukas, S.</b>		
Cyclic AMP phosphodiesterase activity in the hearts of trained rats WARREN K. PALMER and SYLVIA DOUKAS	1017	
<b>Dresel, P.E.</b>		
Absence of supernormal conduction in canine myocardium D. LEIGH CARSON and PETER E. DRESEL	207	
Increase in ventricular fibrillation threshold following blockade of atrioventricular conduction A. KEITH REYNOLDS and PETER E. DRESEL	1079	
<b>Duarte, D.F.</b>		
Inhibitory effects of ketamine on the isolated uterus of the rat: evidence for the mechanism of action JOÃO BATISTA CALIXTO, JOSÉ GILBERTO AUCÉLIO, and DANILO FREIRE DUARTE	1305	
<b>Dubé, J.Y.</b>		
Effect of glucocorticoid administration in vivo on insulin binding in rat testis JOHANNE SAUCIER, JEAN Y. DUBÉ, and ROLAND R. TREMBLAY	653	
<b>Ducharme, J.R.</b>		
Postreceptorial refractoriness of prolactin release mechanisms R. COLLU, J.R. DUCHARME, D. ELJARMAK, A.M. MARCHISIO, J. BERTRAND, I. SABBAGH, P. GUILLAUMOT, and H. COHEN	676	
<b>Duffin, J.</b>		
The changes in ventilation and heart rate at the start of treadmill exercise JAMES DUFFIN and RAFIK R. BECHBACHE	120	
<b>Duplain, M.</b>		
Bicarbonaturic effect of acetazolamide in the dog: the influence of graded volume expansion ANDRÉ GOUGOUX, PATRICK VINAY, MARCELLE DUPLAINE, DIANE LANTHIER, MANUEL CARDOSO, and GUY LEMIEUX	911	
<b>Dupont, A.</b>		
Determination of 5-hydroxytryptophan, 5-hydroxytryptamine, and 5-hydroxyindoleacetic acid in 20 rat brain nuclei using liquid chromatography with electrochemical detection THÉRÈSE DI PAOLO, ANDRÉ DUPONT, PIERRE SAVARD, and MICHEL DAIGLE	530	
<b>Dusik, L.A.</b>		
Hypertonicity and force development in frog skeletal muscle fibres PETER C. VAUGHAN, BERNARD H. BRESSLER, LAUREEN A. DUSIK, and MARTIN J. TROTTER	847	
<b>Dvorak, M.</b>		
Growth hormone stimulates serotonin secretion into the hepatic portal circulation M.N. HUSSAIN, A. SIREK, M. DVORAK, E. CUKERMAN, and O.V. SIREK	95	
<b>Dzurba, A.</b>		
Stimulation of calcium pump activity in heart sarcolemma by timolol ANDRE DZURBA, PALLAB K. GANGULY, ROBERT E. BEAMISH, and NARANJAN S. DHALLA	240	
<b>Ehrreich, S.</b>		
Age-dependent changes in electrophysiologic characteristics of fast and slow action potentials in rat papillary muscle MICHIKO KOJIMA, NICK SPERELAKIS, GORDON JOHNSON, STEWART EHREICH, and TIBOR BALAZS	1509	
<b>Elbrink, J.</b>		
Increased contractility in vascular smooth muscle of dystrophic hamsters E.G. HUNTER and J. ELBRINK	182	
<b>Monosaccharide transport and hexokinase activity in leg muscles from cardiomyopathic hamsters</b>		
BURNELL A. PHIPPS and JUST ELBRINK	369	
<b>Eljarmak, D.</b>		
Postreceptorial refractoriness of prolactin release mechanisms R. COLLU, J.R. DUCHARME, D. ELJARMAK, A.M. MARCHISIO, J. BERTRAND, I. SABBAGH, P. GUILLAUMOT, and H. COHEN	676	
<b>El-Sharkawy, T.Y.</b>		
Vagal control of migrating motor complex-related peaks in canine plasma motilin, pancreatic polypeptide, and gastrin K.E. HALL, G.R. GREENBERG, T.Y. EL-SHARKAWY, and N.E. DIAMANT	1289	
<b>Enomoto, S.</b>		
Phase-linked variations in the amplitude of the digastric nerve jaw-opening reflex response during fictive mastication in the rabbit J.P. LUND, S. ENOMOTO, H. HAYASHI, K. HIRABA, M. KATOH, Y. NAKAMURA, Y. SAHARA, and M. TAIRA	1122	
<b>Esplin, B.</b>		
GABA-mediated responses are not selectively depressed by 3-mercaptopropionic acid in the spinal cord M.F. DAVIES, B. ESPLIN, and R. CAPEK	174	
<b>Fanò, G.</b>		
Evidence for an inotropic positive action of cGMP during excitation-contraction coupling in frog sartorius muscle L. MANCINELLI, G. FANÒ, L. FERRONI, T. SECCA, and B.M. DOLCINI	590	
<b>Fecycz, T.D.</b>		
The fate of orally administered [4- <sup>14</sup> C]phenytoin in two healthy male volunteers D. KADAR, T.D. FECYCZ, and W. KALOW	403	
<b>Feldblum, S.</b>		
Studies of wet-dog shake behavior induced by septohippocampal stimulation in the rat G. LE GAL LA SALLE, E.A. CAVALHEIRO, S. FELDBLUM, and D. MARESOVA	1299	
<b>Ferrier, B.M.</b>		
Specific binding of [ <sup>3</sup> H]oxytocin in the female rat brain B.M. FERRIER, S.A. MCCLOARRY, and A.W. COCHRANE	989	

<b>Cholinergic control mechanisms for immunoreactive motilin release and motility in the canine duodenum</b>	
J.E.T. FOX, E.E. DANIEL, J. JURY, N.S. TRACK, and S. CHIU	1042
<b>Human female bladder and its noncholinergic contractile function</b>	
W.D. COWAN and E.E. DANIEL	1236
<b>Structural bases for neural and myogenic control of human detrusor muscle</b>	
E.E. DANIEL, W. COWAN, and V.P. DANIEL	1247
<b>Daniel, S.A.J.</b>	
Involvement of estrogens in the regulation of granulosa cell aromatase activity	
S.A.J. DANIEL and D.T. ARMSTRONG	507
<b>Daniel, V.P.</b>	
Structural bases for neural and myogenic control of human detrusor muscle	
E.E. DANIEL, W. COWAN, and V.P. DANIEL	1247
<b>Davies, M.F.</b>	
GABA-mediated responses are not selectively depressed by 3- $\alpha$ -mercaptopropionic acid in the spinal cord	
M.F. DAVIES, B. ESPLIN, and R. CAPEK	174
<b>Davis, C.</b>	
Studies of the mechanism of passive anaphylaxis in human airway smooth muscle	
C. DAVIS, T.R. JONES, and E.E. DANIEL	705
<b>DeBold, A.J.</b>	
Natriuretic activity of extracts obtained from hearts of different species and from various rat tissues	
ADOLFO J. DEBOLD and TOMAS A. SALERNO	127
Natriuretic activity of extracts obtained from hearts of different species and from various rat tissues	
A. BAINES, A.J. DEBOLD, and H. SONNENBERG	1462
<b>de Champlain, J.</b>	
Selective activation of the adrenal medulla during acute bilateral carotid occlusion and its modulation by $\alpha$ -adrenergic receptors in the rat	
MICHEL BOUVIER and JACQUES DE CHAMPLAIN	381
<b>Delarue, C.</b>	
Action directe des antagonistes des minéralocorticoïdes sur la biosynthèse de l'aldostérone: activités comparées de plusieurs nouveaux composés	
P. NETCHITAILO, I. PERROTEAU, C. DELARUE, F. LEBOULENGER, M.H. CAPRON et H. VAUDRY	23
<b>Demassieux, S.</b>	
Release of epinephrine during carotid artery occlusion following vagotomy in dogs	
SERGE CARRIÈRE, SYLVAIN DEMASSIEUX, JEAN CARDINAL, and CHRISTIAN LE GRIMELLEC	495
<b>Denomme, M.A.</b>	
Polychlorinated benzene and phenol congeners as inducers of rat hepatic drug-metabolizing enzymes in immature male Wistar rats	
M.A. DENOMME, B. LEECE, J. GYORKOS, K. HOMONKO, and S. SAFE	1063
<b>Depocas, F.</b>	
Effects of desmethylimipramine and norepinephrine on calorigenic response and plasma noradrenaline concentration in warm- and in cold-acclimated rats exposed to cold	
CHI-CHUNG CHAN and FLORENT DEPOCAS	1177
<b>Derby, J.-A.</b>	
Effects of age on muscarinic cholinergic receptors in rat myocardium	
NJANOOR NARAYANAN and JO-ANNE DERBY	822
<b>Derehwany, L.O.</b>	
Placental calcium and phosphorus transfer in the guinea pig: lack of effect of modulators of Ca-ATPase and alkaline phosphatase activity	
H.G. MCKERCHER, L.O. DEREWLANY, and I.C. RADDE	1354
<b>Desai, C.D.</b>	
Effect of aging on response to induction and metabolizing activity of the hepatic mixed-function oxidase system of male Sprague-Dawley rats	
DANIEL S. SITAR and CHETAN D. DESAI	89
<b>Desai, K.S.</b>	
Receptor and postreceptor insulin resistance induced by <i>in vivo</i> hyperinsulinemia	
C. MARTIN, K.S. DESAI, and G. STEINER	802
<b>Dhalla, N.S.</b>	
Stimulation of calcium pump activity in heart sarcolemma by timolol	
ANDRE DZURBA, PALLAB K. GANGULY, ROBERT E. BEAMISH, and NARANJAN S. DHALLA	240
<b>Physiological and pathophysiological aspects of cardiac prostaglandins</b>	
MORRIS KARMAZYN and NARANJAN S. DHALLA	1207
<b>Diamant, N.E.</b>	
Vagal control of migrating motor complex-related peaks in canine plasma motilin, pancreatic polypeptide, and gastrin	
11700 K.E. HALL, G.R. GREENBERG, T.Y. EL-SHARKAWY, and N.E. DIAMANT	1289
<b>Diamond, J.</b>	
Comparison of the effects of forskolin and isoproterenol on cyclic AMP levels and tension in bovine coronary artery	
RAJU V.K. VEGESNA and JACK DIAMOND	1202
<b>Di Paolo, T.</b>	
Determination of 5-hydroxytryptophan, 5-hydroxytryptamine, and 5-hydroxyindoleacetic acid in 20 rat brain nuclei using liquid chromatography with electrochemical detection	
THÉRÈSE DI PAOLO, ANDRÉ DUPONT, PIERRE SAVARD, and MICHEL DAIGLE	530
<b>Dixon, D.</b>	
Lobster muscle and synapse respond to cortisol, a vertebrate hormone	
D. DIXON and H.L. ATWOOD	836
<b>Dolcini, B.M.</b>	
Evidence for an inotropic positive action of cGMP during excitation-contraction coupling in frog sartorius muscle	
L. MANCINELLI, G. FANÒ, L. FERRONI, T. SECCA, and B.M. DOLCINI	590

<b>Doré, F.M.</b>		
Chronopharmacological studies of phenylbutazone in the rat G. LABRECQUE, P.M. BÉLANGER, and F.M. DORE	649	
<b>Doukas, S.</b>		
Cyclic AMP phosphodiesterase activity in the hearts of trained rats WARREN K. PALMER and SYLVIA DOUKAS	1017	
<b>Dresel, P.E.</b>		
Absence of supernormal conduction in canine myocardium D. LEIGH CARSON and PETER E. DRESEL	207	
Increase in ventricular fibrillation threshold following blockade of atrioventricular conduction A. KEITH REYNOLDS and PETER E. DRESEL	1079	
<b>Duarte, D.F.</b>		
Inhibitory effects of ketamine on the isolated uterus of the rat: evidence for the mechanism of action JOÃO BATISTA CALIXTO, JOSÉ GILBERTO AUCÉLIO, and DANILO FREIRE DUARTE	1305	
<b>Dubé, J.Y.</b>		
Effect of glucocorticoid administration in vivo on insulin binding in rat testis JOHANNE SAUCIER, JEAN Y. DUBÉ, and ROLAND R. TREMBLAY	653	
<b>Ducharme, J.R.</b>		
Postreceptorial refractoriness of prolactin release mechanisms R. COLLU, J.R. DUCHARME, D. ELJARMAK, A.M. MARCHISIO, J. BERTRAND, I. SABBAGH, P. GUILLAUMOT, and H. COHEN	676	
<b>Duffin, J.</b>		
The changes in ventilation and heart rate at the start of treadmill exercise JAMES DUFFIN and RAFIK R. BECHBACHE	120	
<b>Duplain, M.</b>		
Bicarbonaturic effect of acetazolamide in the dog: the influence of graded volume expansion ANDRÉ GOUGOUX, PATRICK VINAY, MARCELLE DUPLAINE, DIANE LANTHIER, MANUEL CARDOSO, and GUY LEMIEUX	911	
<b>Dupont, A.</b>		
Determination of 5-hydroxytryptophan, 5-hydroxytryptamine, and 5-hydroxyindoleacetic acid in 20 rat brain nuclei using liquid chromatography with electrochemical detection THÉRÈSE DI PAOLO, ANDRÉ DUPONT, PIERRE SAVARD, and MICHEL DAIGLE	530	
<b>Dusik, L.A.</b>		
Hypertonicity and force development in frog skeletal muscle fibres PETER C. VAUGHAN, BERNARD H. BRESSLER, LAUREEN A. DUSIK, and MARTIN J. TROTTER	847	
<b>Dvorak, M.</b>		
Growth hormone stimulates serotonin secretion into the hepatic portal circulation M.N. HUSSAIN, A. SIREK, M. DVORAK, E. CUKERMAN, and O.V. SIREK	95	
<b>Dzurba, A.</b>		
Stimulation of calcium pump activity in heart sarcolemma by timolol ANDRE DZURBA, PALLAB K. GANGULY, ROBERT E. BEAMISH, and NARANJAN S. DHALLA	240	
<b>Ehrereich, S.</b>		
Age-dependent changes in electrophysiologic characteristics of fast and slow action potentials in rat papillary muscle MICHIKO KOJIMA, NICK SPERELAKIS, GORDON JOHNSON, STEWART EHREREICH, and TIBOR BALAZS	1509	
<b>Elbrink, J.</b>		
Increased contractility in vascular smooth muscle of dystrophic hamsters E.G. HUNTER and J. ELBRINK	182	
Monosaccharide transport and hexokinase activity in leg muscles from cardiomyopathic hamsters BURNELL A. PHIPPS and JUST ELBRINK	369	
<b>Eljarmak, D.</b>		
Postreceptorial refractoriness of prolactin release mechanisms R. COLLU, J.R. DUCHARME, D. ELJARMAK, A.M. MARCHISIO, J. BERTRAND, I. SABBAGH, P. GUILLAUMOT, and H. COHEN	676	
<b>El-Sharkawy, T.Y.</b>		
Vagal control of migrating motor complex-related peaks in canine plasma motilin, pancreatic polypeptide, and gastrin K.E. HALL, G.R. GREENBERG, T.Y. EL-SHARKAWY, and N.E. DIAMANT	1289	
<b>Enomoto, S.</b>		
Phase-linked variations in the amplitude of the digastric nerve jaw-opening reflex response during fictive mastication in the rabbit J.P. LUND, S. ENOMOTO, H. HAYASHI, K. HIRABA, M. KATOH, Y. NAKAMURA, Y. SAHARA, and M. TAIRA	1122	
<b>Esplin, B.</b>		
GABA-mediated responses are not selectively depressed by 3-mercaptopropionic acid in the spinal cord M.F. DAVIES, B. ESPLIN, and R. ČAPEK	174	
<b>Fanò, G.</b>		
Evidence for an inotropic positive action of cGMP during excitation-contraction coupling in frog sartorius muscle L. MANCINELLI, G. FANO, L. FERRONI, T. SECCA, and B.M. DOLCINI	590	
<b>Fecycz, T.D.</b>		
The fate of orally administered [ $4\text{-}^{14}\text{C}$ ]phenytoin in two healthy male volunteers D. KADAR, T.D. FECYCZ, and W. KALOW	403	
<b>Feldblum, S.</b>		
Studies of wet-dog shake behavior induced by septohippocampal stimulation in the rat G. LE GAL LA SALLE, E.A. CAVALHEIRO, S. FELDBLUM, and D. MARESOVA	1299	
<b>Ferrier, B.M.</b>		
Specific binding of [ $^3\text{H}$ ]oxytocin in the female rat brain B.M. FERRIER, S.A. MCCLOARRY, and A.W. COCHRANE	989	

<b>Ferroni, L.</b>		<b>Fujii, K.</b>	
Evidence for an inotropic positive action of cGMP during excitation-contraction coupling in frog sartorius muscle		Vasorelaxing actions of molsidomine and its metabolites, in comparison with nitroglycerin	
L. MANCINELLI, G. FANÒ, L. FERRONI, T. SECCA, and B.M. DOLCINI	590	IKUNOBU MURAMATSU, KAZUTOSHI FUJII, YOSHIHIKO SAKAKIBARA, and MOTOHATSU FUJIWARA	1071
<b>Finley, J.P.</b>		<b>Fujiwara, M.</b>	
Periodicities in respiration and heart rate in newborns		Vasorelaxing actions of molsidomine and its metabolites, in comparison with nitroglycerin	
JOHN P. FINLEY and SHERWIN T. NUGENT	329	IKUNOBU MURAMATSU, KAZUTOSHI FUJII, YOSHIHIKO SAKAKIBARA, and MOTOHATSU FUJIWARA	1071
<b>Flecknell, P.A.</b>		<b>Furuyama, S.</b>	
The tissue-blood partition coefficient of iodoantipyrine in pig brain and its change with age		Regulation of cyclic GMP phosphodiesterase in the submandibular gland of adult rat	
R. WOOTTON, P.A. FLECKNELL, J.P. ROYSTON, and M. JOHN	595	NORIKO YOKOYAMA, YUMIKO MUROTA, TETSUO NEGISHI, MASAO SAITO, and SHUNSUKE FURUYAMA	109
<b>Follows, S.B.</b>		<b>Futamura, Y.</b>	
Inhibition of uroporphyrinogen decarboxylase by 3,3',4,4'-tetrachlorobiphenyl in chick embryo liver cell culture		A two-dimensional analysis of regional myocardial function in the dog	
M.G. SWAIN, S.B. FOLLOWS, and G.S. MARKS	105	HIDEO NOMURA, KAZUHIKO NAGATA, YOSHIHIRO FUTAMURA, YOSHIOUKI HAMA, and IWA SOTOBATA	920
Patterns of porphyrin accumulation in response to chemicals in chick embryo liver cells		<b>Gagné, S.</b>	
G.S. MARKS, S.B. FOLLOWS, D.T. ZELT, and S.P.C. COLE	546	Tip potential of open-tip glass microelectrodes: theoretical and experimental studies	
<b>Fox, J.-A.E.T.</b>		SIMON GAGNÉ and RÉJEAN PLAMONDON	857
Uptake and release of calcium by canine gastric corpus smooth muscle plasma membrane enriched fraction		<b>Ganguly, P.K.</b>	
YASUSHI SAKAI, ASHOK K. GROVER, JO-ANN E.T. FOX, and EDWIN E. DANIEL	699	Stimulation of calcium pump activity in heart sarcolemma by timolol	
<b>Fox, J.E.T.</b>		ANDRE DZURBA, PALLAB K. GANGULY, ROBERT E. BEAMISH, and NARANJAN S. DHALLA	240
Mechanisms of action of neurotensin on motility of canine gastric corpus <i>in vitro</i>		<b>Garcia, R.</b>	
J. MCLEAN and J.E.T. FOX	29	Role of the pituitary in the effects of tonin on adrenal secretion of the rat	
Cholinergic control mechanisms for immunoreactive motilin release and motility in the canine duodenum		ERNESTO L. SCHIFFRIN, RAUL GARCIA, JOLANTA GUTKOWSKA, and JACQUES GENEST	201
J.E.T. FOX, E.E. DANIEL, J. JURY, N.S. TRACK, and S. CHIU	1042	Kallikrein concentration in submandibular glands of rats chronically treated with isoproterenol	
<b>Frank, G.B.</b>		JOLANTA GUTKOWSKA, GAËTAN THIBAULT, MARC CANTIN, RAUL GARCIA, and JACQUES GENEST	449
Nalorphine: actions at an opiate receptor on frog skeletal muscle fibers		<b>Freedman, L.</b>	
THOMAS E. ARY and GEORGE B. FRANK	1361	The gill withdrawal reflex is suppressed in sexually active <i>Aplysia</i>	
<b>Freedman, L.</b>		KEN LUKOWIAK and LEE FREEDMAN	743
The gill withdrawal reflex is suppressed in sexually active <i>Aplysia</i>		<b>Freitas, T.C.</b>	
KEN LUKOWIAK and LEE FREEDMAN	743	Glucose homeostasis during the early stages of liver regeneration in fasted rats	
<b>Frost, H.H.</b>		SÉRGIO O. PETENUSCI, THELMA C. FREITAS, EDUARDO S. ROSELINO, and RENATO H. MIGLIORINI	222
Chemical sympathectomy and serotonin inhibition reduce monocrotaline-induced right ventricular hypertrophy in rats		<b>Genest, J.</b>	
A. TUCKER, S.E. BRYANT, H.H. FROST, and N. MIGALLY	356	Studies on canine gastric antrum smooth muscle: preparation and characterization of a plasma membrane enriched fraction	
<b>Fujihara, N.</b>		A.K. GROVER, P. OAKES, S.N. SIPOS, C.Y. KWAN, and R.E. GARFIELD	927
Stimulatory effect of thyrotrophin-releasing hormone (TRH) on the release of luteinizing hormone (LH) from rat anterior pituitary cells <i>in vitro</i>		<b>Garfield, R.E.</b>	
NOBORU FUJIWARA and MASATAKA SHIINO	186	Role of the pituitary in the effects of tonin on adrenal secretion of the rat	
<b>Genest, J.</b>		ERNESTO L. SCHIFFRIN, RAUL GARCIA, JOLANTA GUTKOWSKA, and JACQUES GENEST	201

- Kallikrein concentration in submandibular glands of rats chronically treated with isoproterenol**  
JOLANTA GUTKOWSKA, GAÉTAN THIBAULT,  
MARC CANTIN, RAUL GARCIA, and JACQUES GENEST 449
- Changes of catecholamines in central and peripheral tissues and in the urines of deoxycorticosterone – salt hypertensive rats**  
NGUYEN T. BUU, OTTO KUCHEL, and JACQUES GENEST 888
- Effect of a potassium-deficient diet on arterial blood pressure, plasma and tissue cations, and tissue norepinephrine in the hypertensive dog**  
RAUL GARCIA, GEORGES CONSTANTOPoulos,  
JOLANTA GUTKOWSKA, and JACQUES GENEST 1473
- Gezon, R.M.**  
Oxytocin resistance in Brattleboro rat adipocytes and comparative studies on insulin or oxytocin responsiveness in normal rat adipocytes  
K. HANIF, H.J. GOREN, R.M. GEONZON, K. LEDERIS, and M.D. HOLLENBERG 1418
- Gianoulakis, C.**  
Chronic ethanol treatment alters the biosynthesis of  $\beta$ -endorphin by the rat neurointermediate lobe  
CHRISTINA GIANOULAKIS, JOHN S.D. CHAN,  
HAROLD KALANT, and MICHEL CHRÉTIEN 967
- Giles, H.G.**  
Artifactual production and recovery of acetaldehyde from ethanol in urine  
H.G. GILES and S. MEGGIORINI 717
- Glass, L.**  
Phase locking of the respiratory rhythm in cats to a mechanical ventilator  
G.A. PETRILLO, LEON GLASS, and T. TRIPPENBACH 599
- Godin, D.**  
Electrophysiological effects of ouabain in 6-hydroxydopamine pretreated dogs  
DIANE GODIN, CLAUDE GUIMOND, and RÉGINALD NADEAU 229
- Acute effects of amiodarone in the isolated dog heart**  
MIYOHARU KOBAYASHI, DIANE GODIN, and RÉGINALD NADEAU 308
- Goff, A.K.**  
Changes in responsiveness of rat granulosa cells to prostaglandin E<sub>2</sub> and follicle-stimulating hormone during culture  
A.K. GOFF and D.T. ARMSTRONG 608
- Goldberg, J.I.**  
Transfer of habituation between stimulation sites of the siphon withdrawal reflex in *Aplysia californica*  
JEFF I. GOLDBERG and KEN LUKOWIAK 749
- Goldstein, M.**  
Importance of medullary events in ammonium excretion: studies in acute respiratory and acute metabolic acidosis  
ANDRE GOUGOUX, PATRICK VINAY, GUY LEMIEUX,  
MARC GOLDSTEIN, BOBBY STINEBAUGH, and MITCHELL HALPERIN 35
- Goldstein, M.B.**  
Effect of acute changes in the  $\text{PaCO}_2$  on acid–base parameters in normal dogs and dogs with metabolic acidosis or alkalosis  
M. BERCOVICI, C.B. CHEN, M.B. GOLDSTEIN,  
B.J. STINEBAUGH, and M.L. HALPERIN 166
- Gontovnick, L.S.**  
Nonadditive effects of combined *in vivo* hepatic microsomal enzyme inducers in the Wistar rat  
LARRY S. GONTOVNICK, GEOFFREY SUNAHARA, and GAIL D. BELLWARD 983
- Goren, H.J.**  
Oxytocin resistance in Brattleboro rat adipocytes and comparative studies on insulin or oxytocin responsiveness in normal rat adipocytes  
K. HANIF, H.J. GOREN, R.M. GEONZON, K. LEDERIS, and M.D. HOLLENBERG 1418
- Gouguoux, A.**  
Importance of medullary events in ammonium excretion: studies in acute respiratory and acute metabolic acidosis  
ANDRE GOUGOUX, PATRICK VINAY, GUY LEMIEUX,  
MARC GOLDSTEIN, BOBBY STINEBAUGH, and MITCHELL HALPERIN 35
- Bicarbonaturic effect of acetazolamide in the dog: the influence of graded volume expansion**  
ANDRÉ GOUGOUX, PATRICK VINAY,  
MARCELLE DUPLAİN, DIANE LANTHIER,  
MANUEL CARDOSO, and GUY LEMIEUX 911
- Grahame, G.R.**  
Changes in electrical potential difference and sodium–potassium ATPase of canine mucosa after jejunal–ileal bypass surgery  
G.R. GRAHAME, J.P. SHOENUT, S. TAKEO, and G.P. SHARMA 512
- Gray, G.W.**  
Hypobaric hypoxia does not affect lung fluid or protein exchange in awake adult sheep at rest  
G. COATES, L.W. BELBECK, and G.W. GRAY 714
- Gray, S.**  
Paraoxonase phenotype distribution in Canadian Indian and Inuit populations  
GIOVANNA CARRO-CIAMPI, SIDNEY GRAY, and WERNER KALOW 336
- Green, H.J.**  
Effects of oral propranolol and exercise protocol on indices of aerobic function in normal man  
B.J. MACFARLANE, R.L. HUGHSON, H.J. GREEN,  
D.J. WALTERS, and D.A. RANNEY 1010
- Greenberg, G.R.**  
Specific binding of vasoactive intestinal peptide to human circulating mononuclear cells  
C.A. OTTAWAY, C. BERNAERTS, B. CHAN, and G.R. GREENBERG 664
- Vagal control of migrating motor complex-related peaks in canine plasma motilin, pancreatic polypeptide, and gastrin**  
K.E. HALL, G.R. GREENBERG, T.Y. EL-SHARKAWY, and N.E. DIAMANT 1289

<b>Greenberg, S.</b>	
Characteristics of postsynaptic alpha <sub>1</sub> and alpha <sub>2</sub> adrenergic receptors in canine vascular smooth muscle	
FREDERICK A. CURRO and STAN GREENBERG	893
<b>Griffin, M.A.</b>	
Mode of action of ergonovine on isolated porcine coronary artery: the role of Ca <sup>2+</sup>	
LOIS B. ROSENBERGER, M.A. GRIFFIN, and H.C. STANTON	685
<b>Grimes, D.</b>	
In vitro studies on cetamolol, a new potent cardioselective beta-adrenoceptor blocking agent with intrinsic sympathomimetic activity	
D. GRIMES, M. STERN, A. WOJDAN, and J.R. CUMMINGS	1109
<b>Groom, A.C.</b>	
Microvascular evidence for a transition zone around a chronic myocardial infarct in the rat	
K. PRZYKLENK and A.C. GROOM	1516
<b>Gross, P.M.</b>	
Interaction of histamine with noradrenergic constrictory mechanisms in cat cerebral arteries and veins	
PAUL M. GROSS, A. MURRAY HARPER, and GRAHAM M. TEASDALE	756
<b>Grover, A.K.</b>	
Uptake and release of calcium by canine gastric corpus smooth muscle plasma membrane enriched fraction	
YASUSHI SAKAI, ASHOK K. GROVER, JO-ANN E.T. FOX, and EDWIN E. DANIEL	699
Studies on canine gastric antrum smooth muscle: preparation and characterization of a plasma membrane enriched fraction	
A.K. GROVER, P. OAKES, S.N. SIPOS, C.Y. KWAN, and R.E. GARFIELD	927
<b>Guevara, M.R.</b>	
A comparative study of collagenase- and trypsin-dissociated embryonic heart cells: reaggregation, electrophysiology, and pharmacology	
DIANE COLIZZA, MICHAEL R. GUEVARA, and ALVIN SHRIER	408
<b>Guillaumot, P.</b>	
Postreceptorial refractoriness of prolactin release mechanisms	
R. COLLU, J.R. DUCHARME, D. ELJARMAK, A.M. MARCISIO, J. BERTRAND, I. SABBAGH, P. GUILLAUMOT, and H. COHEN	676
<b>Guimond, C.</b>	
Electrophysiological effects of ouabain in 6-hydroxydopamine pretreated dogs	
DIANE GODIN, CLAUDE GUIMOND, and REGINALD NADEAU	229
<b>Gutkowska, J.</b>	
Role of the pituitary in the effects of tonin on adrenal secretion of the rat	
ERNESTO L. SCHIFFRIN, RAUL GARCIA, JOLANTA GUTKOWSKA, and JACQUES GENEST	201
Kallikrein concentration in submandibular glands of rats chronically treated with isoproterenol	
JOLANTA GUTKOWSKA, GAETAN THIBAULT, MARC CANTIN, RAUL GARCIA, and JACQUES GENEST	449
Effect of a potassium-deficient diet on arterial blood pressure, plasma and tissue cations, and tissue norepinephrine in the hypertensive dog	
RAUL GARCIA, GEORGES CONSTANTOPoulos, JOLANTA GUTKOWSKA, and JACQUES GENEST	1473
<b>Gutsche, H.-U.</b>	
Dose related effects of furosemide, bumetanide, and piretanide on the thick ascending limb function in the rat	
HANS-ULRICH GUTSCHE, KLAUS MULLER OTT, REINHARD BRUNKHORST, and WALTER NIEDERMAYER	159
<b>Gyorkos, J.</b>	
Polychlorinated benzene and phenol congeners as inducers of rat hepatic drug-metabolizing enzymes in immature male Wistar rats	
M.A. DENOMME, B. LEECE, J. GYORKOS, K. HOMONKO, and S. SAFE	1063
<b>Hahne, B.</b>	
The effect of tubular perfusion with PGE <sub>2</sub> , PGF <sub>2α</sub> , and PGI <sub>2</sub> on the tubuloglomerular feedback control in the rat	
A. ERIK G. PERSSON, BENGT HAHNE, and GÖRAN SELÉN	1317
<b>Hall, K.E.</b>	
Vagal control of migrating motor complex-related peaks in canine plasma motilin, pancreatic polypeptide, and gastrin	
K.E. HALL, G.R. GREENBERG, T.Y. EL-SHARKAWY, and N.E. DIAMANT	1289
<b>Halperin, M.</b>	
Importance of medullary events in ammonium excretion: studies in acute respiratory and acute metabolic acidosis	
ANDRE GOUGOUX, PATRICK VINAY, GUY LEMIEUX, MARC GOLDSTEIN, BOBBY STINEBAUGH, and MITCHELL HALPERIN	35
<b>Halperin, M.L.</b>	
Effect of acute changes in the PaCO <sub>2</sub> on acid-base parameters in normal dogs and dogs with metabolic acidosis or alkalosis	
M. BERCOCICI, C.B. CHEN, M.B. GOLDSTEIN, B.J. STINEBAUGH, and M.L. HALPERIN	166
<b>Hama, Y.</b>	
A two-dimensional analysis of regional myocardial function in the dog	
HIDEO NOMURA, KAZUHIKO NAGATA, YOSHIHIRO FUTAMURA, YOSHIIKU HAMA, and IWAO SOTOBATA	920
<b>Hanif, K.</b>	
Oxytocin resistance in Brattleboro rat adipocytes and comparative studies on insulin or oxytocin responsiveness in normal rat adipocytes	
K. HANIF, H.J. GOREN, R.M. GEONZON, K. LEDERIS, and M.D. HOLLENBERG	1418
<b>Harper, A.M.</b>	
Interaction of histamine with noradrenergic constrictory mechanisms in cat cerebral arteries and veins	
PAUL M. GROSS, A. MURRAY HARPER, and GRAHAM M. TEASDALE	756
<b>Hashiguchi, T.</b>	
Primary afferent depolarization in frog spinal cord is associated with an increase in membrane conductance	
ANTE L. PADJEN and TOSHIO HASHIGUCHI	626

<b>Hashimoto, K.</b>	
Measurement of red cell sickling: a method for studying the efficacy of antisickling drugs under physiological conditions	
S. TSUYOSHI OHNISHI, KOJI HASHIMOTO, and TAKASHI SATO	941
<b>Hay, J.B.</b>	
Involvement of circulating phospholipase A <sub>2</sub> in the pathogenesis of the hemodynamic changes in endotoxin shock	
PETER VADAS and JOHN B. HAY	561
<b>Hayashi, H.</b>	
Phase-linked variations in the amplitude of the digastric nerve jaw-opening reflex response during fictive mastication in the rabbit	
J.P. LUND, S. ENOMOTO, H. HAYASHI, K. HIRABA, M. KATOH, Y. NAKAMURA, Y. SAHARA, and M. TAIRA	1122
<b>Heisler, S.</b>	
Forskolin potentiates calcium-dependent amylase secretion from rat pancreatic acinar cells	
SEYMOUR HEISLER	1168
<b>Henry, J.L.</b>	
Endorphins mediate overshoot of substance P induced facilitation of a spinal nociceptive reflex	
KIRAN YASHPAL and J.L. HENRY	303
<b>Hiraba, K.</b>	
Phase-linked variations in the amplitude of the digastric nerve jaw-opening reflex response during fictive mastication in the rabbit	
J.P. LUND, S. ENOMOTO, H. HAYASHI, K. HIRABA, M. KATOH, Y. NAKAMURA, Y. SAHARA, and M. TAIRA	1122
<b>Hoffman-Goetz, L.</b>	
Effect of protein deficiency on endogenous pyrogen-mediated acute phase protein responses	
R. BELL and L. HOFFMAN-GOETZ	376
<b>Hollander, D.</b>	
Aging: its influence on the intestinal unstirred water layer thickness, surface area, and resistance in the unanesthetized rat	
DANIEL HOLLANDER and VIOLETTA D. DADUFALZA	1501
<b>Hollenberg, M.D.</b>	
Oxytocin resistance in Brattleboro rat adipocytes and comparative studies on insulin or oxytocin responsiveness in normal rat adipocytes	
K. HANIF, H.J. GOREN, R.M. GEONZON, K. LEDERIS, and M.D. HOLLENBERG	1418
<b>Holub, B.J.</b>	
Evidence for 1,25-dihydroxycholecalciferol (1,25-(OH) <sub>2</sub> D <sub>3</sub> ) as a proaggregating agent in rat and human platelets	
D.E. AGWU and B.J. HOLUB	954
<b>Homonko, K.</b>	
Polychlorinated benzene and phenol congeners as inducers of rat hepatic drug-metabolizing enzymes in immature male Wistar rats	
M.A. DENOMME, B. LEECE, J. GYORKOS, K. HOMONKO, and S. SAFE	1063
<b>Honrath, U.</b>	
Tissue catecholamines in obstructive nephropathy and acute uremia in the rat	
D.R. WILSON, U. HONRATH, and M.J. SOLE	131
<b>Hubel, D.H.</b>	
The 11th J.A.F. Stevenson Memorial Lecture: Blobs and color vision	
DAVID H. HUBEL and MARGARET S. LIVINGSTON	1433
<b>Hughson, R.L.</b>	
Effects of oral propranolol and exercise protocol on indices of aerobic function in normal man	
B.J. MACFARLANE, R.L. HUGHSON, H.J. GREEN, D.J. WALTERS, and D.A. RANNEY	1010
<b>Hunter, E.G.</b>	
Increased contractility in vascular smooth muscle of dystrophic hamsters	
E.G. HUNTER and J. ELBRINK	182
<b>Hussain, M.N.</b>	
Growth hormone stimulates serotonin secretion into the hepatic portal circulation	
M.N. HUSSAIN, A. SIREK, M. DVORAK, E. CUKERMAN, and O.V. SIREK	95
<b>Husted, R.F.</b>	
Effects of luminal pH and luminal HCO <sub>3</sub> on Cl-HCO <sub>3</sub> exchange across turtle urinary bladder	
VIDUR MAHADEVA and RUSSELL F. HUSTED	1081
<b>Ioffe, S.</b>	
Drug-induced changes in fetal breathing activity and sleep state	
ARNO H. JANSEN, S. IOFFE, and V. CHERNICK	315
<b>Ito, C.</b>	
Tofisopam, a new 2,3-benzodiazepine. Inhibition of changes induced by stress loading and hypothalamic stimulation	
K. YAMAGUCHI, K. SUZUKI, T. NIHO, M. SHIMORA, C. ITO, and H. OHNISHI	69
<b>Jacobson, S.L.</b>	
Evidence for functional sodium and calcium ion channels in the membrane of cultured cardiomyocytes of the adult rat	
S.L. JACOBSON, C.B. KENNEDY, and G.A.R. MEALING	1312
<b>Jansen, A.H.</b>	
Drug-induced changes in fetal breathing activity and sleep state	
ARNO H. JANSEN, S. IOFFE, and V. CHERNICK	315
<b>Jaramillo, J.</b>	
A comparative study of the acute effects of cetamolol (AI-27,303), atenolol, propranolol, and dexopropranolol on blood pressure, sympathetic nerve and ganglion activity of cats	
J. JARAMILLO	693
<b>Jennings, D.B.</b>	
Commentary on the review article by Dr. Peter Stewart: Modern quantitative acid-base chemistry	
DONALD B. JENNINGS	1442
<b>Jhamandas, K.</b>	
Regional release of [ <sup>3</sup> H]dopamine from rat brain <i>in vitro</i> : effects of opioids on release induced by potassium, nicotine, and L-glutamic acid	
MARC MARIEN, JAMES BRIEN, and KHEM JHAMANDAS	43
<b>Jimmo, S.</b>	
Rapid high-performance liquid chromatographic analysis of amiodarone and <i>N</i> -desethyl-amiodarone in serum	
J.F. BRIEN, S. JIMMO, and P.W. ARMSTRONG	245

<b>John, M.</b> The tissue-blood partition coefficient of iodoantipyrine in pig brain and its change with age R. WOOTTON, P.A. FLECKNELL, J.P. ROYSTON, and M. JOHN	595		
<b>Johns, A.</b> Alpha- and beta-adrenergic and muscarinic cholinergic binding sites in the bladder and urethra of the rabbit ANTHONY JOHNS	61		
<b>Johnson, G.</b> Age-dependent changes in electrophysiologic characteristics of fast and slow action potentials in rat papillary muscle MICHIKO KOJIMA, NICK SPERELAKIS, GORDON JOHNSON, STEWART EHRREICH, and TIBOR BALAZS	1509		
<b>Johnston, J.L.</b> Nutrient control of brain neurotransmitter synthesis and function G. HARVEY ANDERSON and JANICE L. JOHNSTON	271		
<b>Johnston, K.M.</b> Responses to ligation of a coronary artery in conscious rats and the actions of antiarrhythmics K.M. JOHNSTON, B.A. MACLEOD, and M.J.A. WALKER	1340		
<b>Jones, T.R.</b> Studies of the mechanism of passive anaphylaxis in human airway smooth muscle C. DAVIS, T.R. JONES, and E.E. DANIEL	705		
<b>Jury, J.</b> Cholinergic control mechanisms for immunoreactive motilin release and motility in the canine duodenum J.E.T. FOX, E.E. DANIEL, J. JURY, N.S. TRACK, and S. CHIU	1042		
<b>Jutisz, M.</b> Perifused adenohypophyseal cells: release of ACTH and kinetics of the response to secretagogues JOHN RANDLE and MARIAN JUTIZZ	488		
<b>Kadar, D.</b> The fate of orally administered [4- <sup>14</sup> C]phenytoin in two healthy male volunteers D. KADAR, T.D. FECYCZ, and W. KALOW	403		
<b>Kadowitz, P.J.</b> Influence of adenosine triphosphate on the isolated perfused mesenteric artery of the rabbit V.S.R. KRISHNAMURTY and P.J. KADOWITZ	1409		
<b>Kalant, H.</b> Chronic ethanol treatment alters the biosynthesis of $\beta$ -endorphin by the rat neurointermediate lobe CHRISTINA GIANOULAKIS, JOHN S.D. CHAN, HAROLD KALANT, and MICHEL CHRÉTIEN	967		
<b>Kalow, W.</b> The occurrence of two hepatic microsomal sites for amobarbital hydroxylation P.A. REILLY, B.K. TANG, D.J. STEWART, and W. KALOW	67		
Paraoxonase phenotype distribution in Canadian Indian and Inuit populations GIOVANNA CARRO-CIAMPY, SIDNEY GRAY, and WERNER KALOW	336		
		<b>The fate of orally administered [4-<sup>14</sup>C]phenytoin in two healthy male volunteers D. KADAR, T.D. FECYCZ, and W. KALOW</b>	403
		<b>Kalsner, S.</b> Evidence that transmitter release in sympathetic nerves is not set by feedback via presynaptic receptors STANLEY KALSNER	1197
		<b>Kapur, B.M.</b> $\Delta^2$ -Tetrahydrocannabinol and cannabidiol: dose-dependent effects on evoked potentials in the hippocampal slice P.W. KUTAN, P.L. CARLEN, and B.M. KAPUR	420
		<b>Karmazyn, M.</b> Physiological and pathophysiological aspects of cardiac prostaglandins MORRIS KARMAZYN and NARANJAN S. DHALLA	1207
		<b>Kasting, N.W.</b> Changes in cerebrospinal fluid and plasma vasopressin in the febrile sheep NORMAN W. KASTING, DANIEL B. CARR, JOSEPH B. MARTIN, HOWARD BLUME, and RICHARD BERGLAND	427
		<b>Katoh, M.</b> Phase-linked variations in the amplitude of the digastric nerve jaw-opening reflex response during fictive mastication in the rabbit J.P. LUND, S. ENOMOTO, H. HAYASHI, K. HIRABA, M. KATOH, Y. NAKAMURA, Y. SAHARA, and M. TAIRA	1122
		<b>Katovich, M.J.</b> The effects of food deprivation on $\beta$ -adrenergic responsiveness in male rats CHRISTOPHER C. BARNEY, DANIEL A. RUTT, and MICHAEL J. KATOVICH	1101
		<b>Katz, S.</b> The effect of alloxan- and streptozotocin-induced diabetes on calcium transport in rat cardiac sarcoplasmic reticulum. The possible involvement of long chain acylcarnitines GARY D. LOPASCHUK, SIDNEY KATZ, and JOHN H. MCNEILL	439
		<b>Keeler, R.</b> The effects of "dead space" and urine flow changes on measurements of glomerular filtration rate by clearance methods R. KEELER	435
		<b>Effects of atrial natriuretic factor on renal handling of water and electrolytes in rats R. KEELER and ANA MARIA AZZAROLO</b>	996
		<b>Kennedy, C.B.</b> Evidence for functional sodium and calcium ion channels in the membrane of cultured cardiomyocytes of the adult rat S.L. JACOBSON, C.B. KENNEDY, and G.A.R. MEALING	1312
		<b>Kenny, A.D.</b> Parathyroid hormone (PTH) fragments relax the guinea-pig trachea <i>in vitro</i> Y.C. YEN, MAY C.M. YANG, ALEXANDER D. KENNY, and PETER K.T. PANG	1324

- Klassen, G.A.**  
Canine coronary venous pressures: responses to positive inotropism and vasodilation  
G.A. KLASSEN and J.A. ARMOUR 213
- Kline, R.L.**  
Reduced renal vascular response to nerve stimulation and norepinephrine in DOCA - salt hypertensive rats  
R.L. KLINE 464
- Kobayashi, M.**  
Acute effects of amiodarone in the isolated dog heart  
MIYOHARU KOBAYASHI, DIANE GODIN, and RÉGINALD NADEAU 308
- Kojima, M.**  
Age-dependent changes in electrophysiologic characteristics of fast and slow action potentials in rat papillary muscle  
MICHIKO KOJIMA, NICK SPERELAKIS, GORDON JOHNSON, STEWART EHRREICH, and TIBOR BALAZS 1509
- Kolassa, N.**  
Theoretical analysis of adenosine release from cardiac tissue as influenced by transport inhibitors  
H. WIENER, W.G. SCHÜTZENBERGER, E. TUSSL, and N. KOLASSA 946
- Koren, G.**  
Digoxin - amiodarone interaction: *in vivo* and *in vitro* studies in rats  
G. KOREN, S. SOLDIN, and S.M. MACLEOD 1483
- Kramer, J.H.**  
Potentiation of the actions of insulin by taurine  
W.G. LAMPSON, J.H. KRAMER, and S.W. SCHAFFER 457
- Krishnamra, N.**  
The acute hypocalcaemic effect of ethanol and its mechanism of action in the rat  
NATEETIP KRISHNAMRA and LIANGCHAI LIMLOMONGSE 388
- Krishnamurty, V.S.R.**  
Influence of adenosine triphosphate on the isolated perfused mesenteric artery of the rabbit  
V.S.R. KRISHNAMURTY and P.J. KADOWITZ 1409
- Kuchel, O.**  
Changes of catecholamines in central and peripheral tissues and in the urines of deoxycorticosterone - salt hypertensive rats  
NGUYEN T. BUU, OTTO KUCHEL, and JACQUES GENEST 888
- Kujtan, P.W.**  
 $\Delta^9$ -Tetrahydrocannabinol and cannabidiol: dose-dependent effects on evoked potentials in the hippocampal slice  
P.W. KUITAN, P.L. CARLEN, and B.M. KAPUR 420
- Kwan, C.Y.**  
Studies on canine gastric antrum smooth muscle: preparation and characterization of a plasma membrane enriched fraction  
A.K. GROVER, P. OAKES, S.N. SIPOS, C.Y. KWAN, and R.E. GARFIELD 927
- Kwok, Y.N.**  
Enkephalinergic control of somatostatin secretion from the perfused rat stomach  
C.H.S. MCINTOSH, Y.N. KWOK, T. MORDHORST, E. NISHIMURA, R.A. PEDERSON, and J.C. BROWN 657
- LaBella, F.S.**  
Cell membrane receptors: gateway to endogenous medicinals  
FRANK S. LABELLA 191
- Labrecque, G.**  
Chronopharmacological studies of phenylbutazone in the rat  
G. LABRECQUE, P.M. BÉLANGER, and F.M. DORÉ 649
- Laher, J.M.**  
Studies of the absorption and enterohepatic circulation of 7,12-dimethylbenz[a]anthracene in the rat  
J.M. LAHER, G.A. CHERNENKO, and J.A. BARROWMAN 1368
- Lampson, W.G.**  
Potentiation of the actions of insulin by taurine  
W.G. LAMPSON, J.H. KRAMER, and S.W. SCHAFFER 457
- Lanthier, D.**  
Bicarbonaturic effect of acetazolamide in the dog: the influence of graded volume expansion  
ANDRÉ GOUGOUX, PATRICK VINAY, MARCELLE DUPLAİN, DIANE LANTHIER, MANUEL CARDOSO, and GUY LEMIEUX 911
- Lautt, W.W.**  
A possible role for somatostatin in depression of insulin and glucagon levels during hemorrhage  
W. WAYNE LAUTT, DALLAS J. LÉGARÉ, and ELIZABETH S. MARTENS 237
- Lavoie, P.-A.**  
Inhibition of fast axonal transport *in vitro* by the local anesthetics prilocaine, mepivacaine, and bupivacaine  
P.-A. LAVOIE 1478
- Layberry, R.A.**  
Feedback suppression of ACTH secretion by cortisol in dogs: lags after large signals equal those following very small signals  
JOHN S. COWAN and ROSS A. LAYBERRY 1281
- LeBlanc, J.**  
Pancreatic insulin response in relation to exercise training  
DENIS RICHARD and JACQUES LEBLANC 1194
- Leboulenger, F.**  
Action directe des antagonistes des minéralocorticoïdes sur la biosynthèse de l'aldostéron: activités comparées de plusieurs nouveaux composés  
P. NETCHITAILO, I. PERROTEAU, C. DELARUE, F. LEBOULENGER, M.H. CAPRON et H. VAUDRY 23
- Lederis, K.**  
Oxytocin resistance in Brattleboro rat adipocytes and comparative studies on insulin or oxytocin responsiveness in normal rat adipocytes  
K. HANIF, H.J. GOREN, R.M. GEONZON, K. LEDERIS, and M.D. HOLLERNBERG 1418
- Ledsome, J.R.**  
Distension of the pulmonary vein - atrial junctions and plasma vasopressin in the chloralose-anaesthetized dog  
N. WILSON and J.R. LEDSOME 905
- Leece, B.**  
Polychlorinated benzene and phenol congeners as inducers of rat hepatic drug-metabolizing enzymes in immature male Wistar rats  
M.A. DENOMME, B. LEECE, J. GYORKOS, K. HOMONKO, and S. SAFE 1063

<b>Le Gal La Salle, G.</b>		
Studies of wet-dog shake behavior induced by septohippocampal stimulation in the rat		
G. LE GAL LA SALLE, E.A. CAVALHEIRO, S. FELDBLUM, and D. MARESOVA	1299	
<b>Légaré, D.J.</b>		
A possible role for somatostatin in depression of insulin and glucagon levels during hemorrhage		
W. WAYNE LAUTT, DALLAS J. LÉGARÉ, and ELIZABETH S. MARTENS	237	
<b>Le Grimellec, C.</b>		
Release of epinephrine during carotid artery occlusion following vagotomy in dogs		
SERGE CARRIÈRE, SYLVAIN DEMASSIEUX, JEAN CARDINAL, and CHRISTIAN LE GRIMELLEC	495	
<b>Lehoux, J.-G.</b>		
Properties of triiodothyronine-binding proteins in liver cytosol of rat D. BELLABARBA, S. BÉDARD, and J.-G. LEHOUX	1035	
<b>Lemieux, G.</b>		
Importance of medullary events in ammonium excretion: studies in acute respiratory and acute metabolic acidosis		
ANDRÉ GOUGOUX, PATRICK VINAY, GUY LEMIEUX, MARC GOLDSTEIN, BOBBY STINEBAUGH, and MITCHELL HALPERIN	35	
Bicarbonaturic effect of acetazolamide in the dog: the influence of graded volume expansion		
ANDRÉ GOUGOUX, PATRICK VINAY, MARCELLE DUPLAINE, DIANE LANTHIER, MANUEL CARDOSO, and GUY LEMIEUX	911	
<b>Leung, C.T.</b>		
Effects of mixed-function oxidase inducers and inhibitors on cytochrome P-450 content, gel electrophoresis profiles, and 3-methylindole-induced lung toxicity in goats		
CECILIA T. LEUNG, JAMES R. CARLSON, and ROGER G. BREEZE	395	
<b>Leung, P.</b>		
Role of norepinephrine in seizure-like activity of hippocampal pyramidal cells maintained <i>in vitro</i> : alteration by 6-hydroxydopamine lesions of norepinephrine-containing systems		
I. MODY, P. LEUNG, and J.J. MILLER	841	
<b>Levine, D.Z.</b>		
Steroid modulation of response of plasma bicarbonate concentration to NH <sub>4</sub> Cl loading: gamma distribution analysis		
DAVID Z. LEVINE, ROBERT A. MCLEOD, and S. RAMAN	641	
<b>Levy, M.</b>		
Failure of delta-aminolevulinic acid and porphobilinogen to alter renal salt and water excretion in the dog		
BERNARD UNIKOWSKY and MORTIMER LEVY	363	
Renal blood flow in normal dogs and in dogs with experimental liver cirrhosis following the acute continuous infusion of endotoxin		
MORTIMER LEVY, ALAN LISZAUER, and MARVIN J. WEXLER	1396	
<b>Levy, M.N.</b>		
Heart rate as a determinant of the decay rate of the cardiac inotropic response to sympathetic nervous activity		
YUKITAKA MASUDA and MATTHEW N. LEVY	1374	
<b>Li, T.</b>		
Calcium antagonist blockade of slow action potentials in cultured chick heart cells		
TUNG LI and NICK SPERELAKIS	957	
<b>Limlomwongse, L.</b>		
The acute hypocalcaemic effect of ethanol and its mechanism of action in the rat		
NATEETIP KRISHNAMRA and LIANGCHAI LIMLOMONGSE	388	
<b>Lin, C.-I</b>		
Calcium overload and strophanthin-induced mechanical toxicity in cardiac Purkinje fibers		
CHENG-I LIN and MARIO VASSALLE	1329	
<b>Lischinsky, A.</b>		
Granulosa cell stimulation of thecal androgen synthesis		
ADRIANA LISCHINSKY and DAVID T. ARMSTRONG	472	
<b>Liszauer, A.</b>		
Renal blood flow in normal dogs and in dogs with experimental liver cirrhosis following the acute continuous infusion of endotoxin		
MORTIMER LEVY, ALAN LISZAUER, and MARVIN J. WEXLER	1396	
<b>Livingston, M.S.</b>		
The 11th J.A.F. Stevenson Memorial Lecture: Blobs and color vision		
DAVID H. HUBEL and MARGARET S. LIVINGSTON	1433	
<b>Loomis, C.W.</b>		
Pharmacology of acetaldehyde		
J.F. BRIEN and C.W. LOOMIS	1	
Specificity of hepatic aldehyde dehydrogenase inhibition by calcium carbimide (calcium cyanamide) in the rat		
C.W. LOOMIS and J.F. BRIEN	431	
Gas-liquid chromatographic determination of salsolinol in the striatum of rat brain during the calcium carbimide-ethanol interaction		
J.F. BRIEN, P.J. ANDREWS, C.W. LOOMIS, and J.A. PAGE	632	
Inhibition of hepatic aldehyde dehydrogenases in the rat by calcium carbimide (calcium cyanamide)		
C.W. LOOMIS and J.F. BRIEN	1025	
<b>Lopaschuk, G.D.</b>		
The effect of alloxan- and streptozotocin-induced diabetes on calcium transport in rat cardiac sarcoplasmic reticulum. The possible involvement of long chain acylcarnitines		
GARY D. LOPASCHUK, SIDNEY KATZ, and JOHN H. MCNEILL	439	
<b>Lukowiak, K.</b>		
The gill withdrawal reflex is suppressed in sexually active <i>Aplysia</i>		
KEN LUKOWIAK and LEE FREEDMAN	743	
Transfer of habituation between stimulation sites of the siphon withdrawal reflex in <i>Aplysia californica</i>		
JEFF I. GOLDBERG and KEN LUKOWIAK	749	
FMRFamide effects on spontaneous and induced contractions of the anterior gizzard in <i>Aplysia</i>		
TOM AUSTIN, SAM WEISS, and KEN LUKOWIAK	949	

<b>Lund, J.P.</b>		
Phase-linked variations in the amplitude of the digastric nerve jaw-opening reflex response during fictive mastication in the rabbit		
J.P. LUND, S. ENOMOTO, H. HAYASHI, K. HIRABA, M. KATOH, Y. NAKAMURA, Y. SAHARA, and M. TAIRA	1122	
<b>Lye, S.J.</b>		
Estradiol modulation of ovine uterine activity		
R. WINDMOLLER, S.J. LYÉ, and J.R.G. CHALLIS	722	
Modulation of ovine myometrial activity by estradiol-17 $\beta$ . The possible involvement of prostaglandins		
S.J. LYÉ, CHER L. SPRAGUE, and J.R.G. CHALLIS	729	
<b>MacDonald, J.F.</b>		
Actions of verapamil on the excitability of cultured neurones		
J.F. MACDONALD and J.H. SCHNEIDERMAN	1467	
<b>MacFarlane, B.J.</b>		
Effects of oral propranolol and exercise protocol on indices of aerobic function in normal man		
B.J. MACFARLANE, R.L. HUGHSON, H.J. GREEN, D.J. WALTERS, and D.A. RANNEY	1010	
<b>MacLeod, B.A.</b>		
Responses to ligation of a coronary artery in conscious rats and the actions of antiarrhythmics		
K.M. JOHNSTON, B.A. MACLEOD, and M.J.A. WALKER	1340	
<b>Macleod, S.M.</b>		
Digoxin - amiodarone interaction: <i>in vivo</i> and <i>in vitro</i> studies in rats		
G. KOREN, S. SOLDIN, and S.M. MACLEOD	1483	
<b>Mahadeva, V.</b>		
Effects of luminal pH and luminal $HCO_3^-$ on $Cl^- - HCO_3^-$ exchange across turtle urinary bladder		
VIDUR MAHADEVA and RUSSELL F. HUSTED	1081	
<b>Mancinelli, L.</b>		
Evidence for an inotropic positive action of cGMP during excitation - contraction coupling in frog sartorius muscle		
L. MANCINELLI, G. FANÒ, L. FERRONI, T. SECCA, and B.M. DOLCINI	590	
<b>Marchisio, A.M.</b>		
Postreceptorial refractoriness of prolactin release mechanisms		
R. COLLU, J.R. DUCHARME, D. ELJARMAK, A.M. MARCHISIO, J. BERTRAND, I. SABBAGH, P. GUILLAUMOT, and H. COHEN	676	
<b>Maresova, D.</b>		
Studies of wet-dog shake behavior induced by septohippocampal stimulation in the rat		
G. LE GAL LA SALLE, E.A. CAVALHEIRO, S. FELDBLUM, and D. MARESOVA	1299	
<b>Marien, M.</b>		
Regional release of [ $^3$ H]dopamine from rat brain <i>in vitro</i> : effects of opioids on release induced by potassium, nicotine, and L-glutamic acid		
MARC MARIEN, JAMES BRIEN, and KHEM JHAMANDAS	43	
<b>Marks, G.S.</b>		
Inhibition of uroporphyrinogen decarboxylase by 3,3',4,4'-tetrachlorobiphenyl in chick embryo liver cell culture		
M.G. SWAIN, S.B. FOLLOWES, and G.S. MARKS	105	
Patterns of porphyrin accumulation in response to chemicals in chick embryo liver cells		
G.S. MARKS, S.B. FOLLOWES, D.T. ZELT, and S.P.C. COLE	546	
Investigation of the role of prostaglandins in nitroglycerin-induced relaxation of isolated rabbit blood vessels		
BRIAN M. BENNETT, JOYCE A. MOFFAT, PAUL W. ARMSTRONG, and GERALD S. MARKS	554	
Gas - liquid chromatographic determination of the distribution of 3,3',4,4'-tetrachlorobiphenyl in the adult female rat following short-term oral administration		
D.W. CLARKE, J.F. BRIEN, K. NAKATSU, H. TAUB, W.J. RACZ, and G.S. MARKS	1093	
<b>Marriott, M.L.</b>		
Effect of thyroid hormone treatment on responses of the isolated working rat heart		
M. LYNNE MARRIOTT and JOHN H. MCNEILL	1382	
<b>Martens, E.S.</b>		
A possible role for somatostatin in depression of insulin and glucagon levels during hemorrhage		
W. WAYNE LAUTT, DALLAS J. LÉGARÉ, and ELIZABETH S. MARTENS	237	
<b>Martin, C.</b>		
Receptor and postreceptor insulin resistance induced by <i>in vivo</i> hyperinsulinemia		
C. MARTIN, K.S. DESAI, and G. STEINER	802	
<b>Martin, J.B.</b>		
Changes in cerebrospinal fluid and plasma vasopressin in the febrile sheep		
NORMAN W. KASTING, DANIEL B. CARR, JOSEPH B. MARTIN, HOWARD BLUME, and RICHARD BERGLAND	427	
<b>Masuda, Y.</b>		
Heart rate as a determinant of the decay rate of the cardiac inotropic response to sympathetic nervous activity		
YUKITAKA MASUDA and MATTHEW N. LEVY	1374	
<b>Matuk, Y.</b>		
Distribution of radioactive silver in the subcellular fractions of various tissues of the rat and its binding to low molecular weight proteins		
YOUSSEF MATUK	1391	
<b>McClory, S.A.</b>		
Specific binding of [ $^3$ H]oxytocin in the female rat brain		
B.M. FERRIER, S.A. MCCLORY, and A.W. COCHRANE	989	
<b>McCully, J.D.</b>		
Alterations in myocardial RNA synthesis and RNA polymerase activity during normal growth		
JAMES D. MCCULLY, PAUL B. TAYLOR, and NANCY L. MORRISON	341	
<b>McIntosh, C.H.S.</b>		
The gastrointestinal peptides and nutrition		
J.C. BROWN, C.H.S. MCINTOSH, and R.A. PEDERSON	282	
Enkephalinergic control of somatostatin secretion from the perfused rat stomach		
C.H.S. MCINTOSH, Y.N. KWOK, T. MORDHORST, E. NISHIMURA, R.A. PEDERSON, and J.C. BROWN	657	

<b>Le Gal La Salle, G.</b>		
Studies of wet-dog shake behavior induced by septohippocampal stimulation in the rat		
G. LE GAL LA SALLE, E.A. CAVALHEIRO, S. FELDBLUM, and D. MARESOVA	1299	
<b>Légaré, D.J.</b>		
A possible role for somatostatin in depression of insulin and glucagon levels during hemorrhage		
W. WAYNE LAUTT, DALLAS J. LÉGARÉ, and ELIZABETH S. MARTENS	237	
<b>Le Grimellec, C.</b>		
Release of epinephrine during carotid artery occlusion following vagotomy in dogs		
SERGE CARRIÈRE, SYLVAIN DEMASSIEUX, JEAN CARDINAL, and CHRISTIAN LE GRIMELLEC	495	
<b>Lehoux, J.-G.</b>		
Properties of triiodothyronine-binding proteins in liver cytosol of rat		
D. BELLABARBA, S. BÉDARD, and J.-G. LEHOUX	1035	
<b>Lemieux, G.</b>		
Importance of medullary events in ammonium excretion: studies in acute respiratory and acute metabolic acidosis		
ANDRÉ GOUGOUX, PATRICK VINAY, GUY LEMIEUX, MARC GOLDSTEIN, BOBBY STINEBAUGH, and MITCHELL HALPERIN	35	
Bicarbonaturic effect of acetazolamide in the dog: the influence of graded volume expansion		
ANDRÉ GOUGOUX, PATRICK VINAY, MARCELLE DUPLAINE, DIANE LANTHIER, MANUEL CARDOSO, and GUY LEMIEUX	911	
<b>Leung, C.T.</b>		
Effects of mixed-function oxidase inducers and inhibitors on cytochrome P-450 content, gel electrophoresis profiles, and 3-methylindole-induced lung toxicity in goats		
CECILIA T. LEUNG, JAMES R. CARLSON, and ROGER G. BREEZE	395	
<b>Leung, P.</b>		
Role of norepinephrine in seizure-like activity of hippocampal pyramidal cells maintained <i>in vitro</i> : alteration by 6-hydroxydopamine lesions of norepinephrine-containing systems		
I. MODY, P. LEUNG, and J.J. MILLER	841	
<b>Levine, D.Z.</b>		
Steroid modulation of response of plasma bicarbonate concentration to NH <sub>4</sub> Cl loading: gamma distribution analysis		
DAVID Z. LEVINE, ROBERT A. MCLEOD, and S. RAMAN	641	
<b>Levy, M.</b>		
Failure of delta-aminolaevulinic acid and porphobilinogen to alter renal salt and water excretion in the dog		
BERNARD UNIKOWSKY and MORTIMER LEVY	363	
Renal blood flow in normal dogs and in dogs with experimental liver cirrhosis following the acute continuous infusion of endotoxin		
MORTIMER LEVY, ALAN LISZAUER, and MARVIN J. WEXLER	1396	
<b>Levy, M.N.</b>		
Heart rate as a determinant of the decay rate of the cardiac inotropic response to sympathetic nervous activity		
YUKITAKA MASUDA and MATTHEW N. LEVY	1374	
<b>Li, T.</b>		
Calcium antagonist blockade of slow action potentials in cultured chick heart cells		
TUNG LI and NICK SPERELAKIS	957	
<b>Limlomwongse, L.</b>		
The acute hypocalcaemic effect of ethanol and its mechanism of action in the rat		
NATEETIP KRISHNAMRA and LIANGCHAI LIMLOMWONGSE	388	
<b>Lin, C.-I</b>		
Calcium overload and strophanthin-induced mechanical toxicity in cardiac Purkinje fibers		
CHENG-I LIN and MARIO VASSALLE	1329	
<b>Lischinsky, A.</b>		
Granulosa cell stimulation of thecal androgen synthesis		
ADRIANA LISCHINSKY and DAVID T. ARMSTRONG	472	
<b>Liszauer, A.</b>		
Renal blood flow in normal dogs and in dogs with experimental liver cirrhosis following the acute continuous infusion of endotoxin		
MORTIMER LEVY, ALAN LISZAUER, and MARVIN J. WEXLER	1396	
<b>Livingston, M.S.</b>		
The 11th J.A.F. Stevenson Memorial Lecture: Blobs and color vision		
DAVID H. HUBEL and MARGARET S. LIVINGSTON	1433	
<b>Loomis, C.W.</b>		
Pharmacology of acetaldehyde		
J.F. BRIEN and C.W. LOOMIS	1	
Specificity of hepatic aldehyde dehydrogenase inhibition by calcium carbimide (calcium cyanamide) in the rat		
C.W. LOOMIS and J.F. BRIEN	431	
Gas-liquid chromatographic determination of salsolinol in the striatum of rat brain during the calcium carbimide-ethanol interaction		
J.F. BRIEN, P.J. ANDREWS, C.W. LOOMIS, and J.A. PAGE	632	
Inhibition of hepatic aldehyde dehydrogenases in the rat by calcium carbimide (calcium cyanamide)		
C.W. LOOMIS and J.F. BRIEN	1025	
<b>Lopaschuk, G.D.</b>		
The effect of alloxan- and streptozotocin-induced diabetes on calcium transport in rat cardiac sarcoplasmic reticulum. The possible involvement of long chain acyl carnitines		
GARY D. LOPASCHUK, SIDNEY KATZ, and JOHN H. MCNEILL	439	
<b>Lukowiak, K.</b>		
The gill withdrawal reflex is suppressed in sexually active <i>Aplysia</i>		
KEN LUKOWIAK and LEE FREEDMAN	743	
Transfer of habituation between stimulation sites of the siphon withdrawal reflex in <i>Aplysia californica</i>		
JEFF I. GOLDBERG and KEN LUKOWIAK	749	
FMRFamide effects on spontaneous and induced contractions of the anterior gizzard in <i>Aplysia</i>		
TOM AUSTIN, SAM WEISS, and KEN LUKOWIAK	949	

<b>Lund, J.P.</b>	
Phase-linked variations in the amplitude of the digastric nerve jaw-opening reflex response during fictive mastication in the rabbit	
J.P. LUND, S. ENOMOTO, H. HAYASHI, K. HIRABA, M. KATOH, Y. NAKAMURA, Y. SAHARA, and M. TAIKA	1122
<b>Lye, S.J.</b>	
Estradiol modulation of ovine uterine activity	
R. WINDMOLLER, S.J. LYÉ, and J.R.G. CHALLIS	722
Modulation of ovine myometrial activity by estradiol-17 $\beta$ . The possible involvement of prostaglandins	
S.J. LYÉ, CHER L. SPRAGUE, and J.R.G. CHALLIS	729
<b>MacDonald, J.F.</b>	
Actions of verapamil on the excitability of cultured neurones	
J.F. MACDONALD and J.H. SCHNEIDERMAN	1467
<b>MacFarlane, B.J.</b>	
Effects of oral propranolol and exercise protocol on indices of aerobic function in normal man	
B.J. MACFARLANE, R.L. HUGHSON, H.J. GREEN, D.J. WALTERS, and D.A. RANNEY	1010
<b>MacLeod, B.A.</b>	
Responses to ligation of a coronary artery in conscious rats and the actions of antiarrhythmics	
K.M. JOHNSTON, B.A. MACLEOD, and M.J.A. WALKER	1340
<b>Macleod, S.M.</b>	
Digoxin - amiodarone interaction: <i>in vivo</i> and <i>in vitro</i> studies in rats	
G. KOREN, S. SOLDIN, and S.M. MACLEOD	1483
<b>Mahadeva, V.</b>	
Effects of luminal pH and luminal $HCO_3^-$ on $Cl^- - HCO_3^-$ exchange across turtle urinary bladder	
VIDUR MAHADEVA and RUSSELL F. HUSTED	1081
<b>Mancinelli, L.</b>	
Evidence for an inotropic positive action of cGMP during excitation - contraction coupling in frog sartorius muscle	
L. MANCINELLI, G. FANÒ, L. FERRONI, T. SECCA, and B.M. DOLCINI	590
<b>Marchisio, A.M.</b>	
Postreceptorial refractoriness of prolactin release mechanisms	
R. COLLU, J.R. DUCHARME, D. ELJARMAK, A.M. MARCHISIO, J. BERTRAND, I. SABBAGH, P. GUILLAUMOT, and H. COHEN	676
<b>Maresova, D.</b>	
Studies of wet-dog shake behavior induced by septohippocampal stimulation in the rat	
G. LE GAL LA SALLE, E.A. CAVALHEIRO, S. FELDBLUM, and D. MARESOVA	1299
<b>Marien, M.</b>	
Regional release of [ $^3$ H]dopamine from rat brain <i>in vitro</i> : effects of opiods on release induced by potassium, nicotine, and L-glutamic acid	
MARC MARIEN, JAMES BRIEN, and KHEM JHAMANDAS	43
<b>Marks, G.S.</b>	
Inhibition of uroporphyrinogen decarboxylase by 3,3',4,4'-tetrachlorobiphenyl in chick embryo liver cell culture	
M.G. SWAIN, S.B. FOLLOWS, and G.S. MARKS	105
Patterns of porphyrin accumulation in response to chemicals in chick embryo liver cells	
G.S. MARKS, S.B. FOLLOWS, D.T. ZELT, and S.P.C. COLE	546
Investigation of the role of prostaglandins in nitroglycerin-induced relaxation of isolated rabbit blood vessels	
BRIAN M. BENNETT, JOYCE A. MOFFAT, PAUL W. ARMSTRONG, and GERALD S. MARKS	554
Gas - liquid chromatographic determination of the distribution of 3,3',4,4'-tetrachlorobiphenyl in the adult female rat following short-term oral administration	
D.W. CLARKE, J.F. BRIEN, K. NAKATSU, H. TAUB, W.J. RACZ, and G.S. MARKS	1093
<b>Marriott, M.L.</b>	
Effect of thyroid hormone treatment on responses of the isolated working rat heart	
M. LYNNE MARRIOTT and JOHN H. MCNEILL	1382
<b>Martens, E.S.</b>	
A possible role for somatostatin in depression of insulin and glucagon levels during hemorrhage	
W. WAYNE LAUTT, DALLAS J. LÉGARÉ, and ELIZABETH S. MARTENS	237
<b>Martin, C.</b>	
Receptor and postreceptor insulin resistance induced by <i>in vivo</i> hyperinsulinemia	
C. MARTIN, K.S. DESAI, and G. STEINER	802
<b>Martin, J.B.</b>	
Changes in cerebrospinal fluid and plasma vasopressin in the febrile sheep	
NORMAN W. KASTING, DANIEL B. CARR, JOSEPH B. MARTIN, HOWARD BLUME, and RICHARD BERGLAND	427
<b>Masuda, Y.</b>	
Heart rate as a determinant of the decay rate of the cardiac inotropic response to sympathetic nervous activity	
YUKITAKA MASUDA and MATTHEW N. LEVY	1374
<b>Matuk, Y.</b>	
Distribution of radioactive silver in the subcellular fractions of various tissues of the rat and its binding to low molecular weight proteins	
YOUSSEF MATUK	1391
<b>McClory, S.A.</b>	
Specific binding of [ $^3$ H]oxytocin in the female rat brain	
B.M. FERRIER, S.A. MCCLORY, and A.W. COCHRANE	989
<b>McCully, J.D.</b>	
Alterations in myocardial RNA synthesis and RNA polymerase activity during normal growth	
JAMES D. MCCULLY, PAUL B. TAYLOR, and NANCY L. MORRISON	341
<b>McIntosh, C.H.S.</b>	
The gastrointestinal peptides and nutrition	
J.C. BROWN, C.H.S. MCINTOSH, and R.A. PEDERSON	282
Enkephalinergic control of somatostatin secretion from the perfused rat stomach	
C.H.S. MCINTOSH, Y.N. KWOK, T. MORDHORST, E. NISHIMURA, R.A. PEDERSON, and J.C. BROWN	657

<b>McKercher, H.G.</b>	
Placental calcium and phosphorus transfer in the guinea pig: lack of effect of modulators of Ca-ATPase and alkaline phosphatase activity	
H.G. MCKERCHER, L.O. DEREWLANY, and I.C. RADDE	1354
<b>McLean, J.</b>	
Mechanisms of action of neuropeptides on motility of canine gastric corpus <i>in vitro</i>	
J. MCLEAN and J.E.T. FOX	29
<b>McLeod, R.A.</b>	
Steroid modulation of response of plasma bicarbonate concentration to NH <sub>4</sub> Cl loading: gamma distribution analysis	
DAVID Z. LEVINE, ROBERT A. MCLEOD, and S. RAMAN	641
<b>McNeill, J.H.</b>	
The effect of alloxan- and streptozotocin-induced diabetes on calcium transport in rat cardiac sarcoplasmic reticulum. The possible involvement of long chain acylcarnitines	
GARY D. LOPASCHUK, SIDNEY KATZ, and JOHN H. MCNEILL	439
Prevention and reversal of altered myocardial function in diabetic rats by insulin treatment	
ARUN G. TAHILIANI, RAO V.S.V. VADLAMUDI, and JOHN H. MCNEILL	516
Dissociation constants ( $K_A$ ) and relative efficacies of sympathomimetic amines in isolated atria during hypothermia-induced supersensitivity	
KENNETH J. BROADLEY and JOHN H. MCNEILL	572
Effect of thyroid hormone treatment on responses of the isolated working rat heart	
M. LYNNE MARRIOTT and JOHN H. MCNEILL	1382
<b>McNeill, J.R.</b>	
Redundant nature of the vasopressin and renin - angiotensin systems in the control of mesenteric resistance vessels of the conscious fasted cat	
J.R. MCNEILL	770
Role of vasopressin in the control of arterial pressure	
J. ROBERT MCNEILL	1226
<b>Mealing, G.A.R.</b>	
Evidence for functional sodium and calcium ion channels in the membrane of cultured cardiomyocytes of the adult rat	
S.L. JACOBSON, C.B. KENNEDY, and G.A.R. MEALING	1312
<b>Meggiorini, S.</b>	
Artifactual production and recovery of acetaldehyde from ethanol in urine	
H.G. GILES and S. MEGGIORINI	717
<b>Merrill, G.F.</b>	
Comparative effects of adenosine and nifedipine in rabbit vascular smooth muscle	
M.A. YOUNG and G.F. MERRILL	1057
<b>Mettrick, D.F.</b>	
Effects of 5-hydroxytryptamine on carbohydrate metabolism in <i>Hymenolepis diminuta</i> (Cestoda)	
M.S. RAHMAN, D.F. METTRICK, and R.B. PODESTA	137
<b>Migally, N.</b>	
Chemical sympathectomy and serotonin inhibition reduce monocrotaline-induced right ventricular hypertrophy in rats	
A. TUCKER, S.E. BRYANT, H.H. FROST, and N. MIGALLY	356
<b>Migliorini, R.H.</b>	
Glucose homeostasis during the early stages of liver regeneration in fasted rats	
SÉRGIO O. PETENUSCI, THELMA C. FREITAS, EDUARDO S. ROSELINO, and RENATO H. MIGLIORINI	222
<b>Miller, J.J.</b>	
Role of norepinephrine in seizure-like activity of hippocampal pyramidal cells maintained <i>in vitro</i> : alteration by 6-hydroxydopamine lesions of norepinephrine-containing systems	
I. MODY, P. LEUNG, and J.J. MILLER	841
Low-frequency stimulation of the perforant path produces long-term potentiation in the dentate gyrus of unanesthetized rats	
R.W. SKELTON, J.J. MILLER, and A.G. PHILLIPS	1156
<b>Mody, I.</b>	
Role of norepinephrine in seizure-like activity of hippocampal pyramidal cells maintained <i>in vitro</i> : alteration by 6-hydroxydopamine lesions of norepinephrine-containing systems	
I. MODY, P. LEUNG, and J.J. MILLER	841
<b>Moffat, J.A.</b>	
Investigation of the role of prostaglandins in nitroglycerin-induced relaxation of isolated rabbit blood vessels	
BRIAN M. BENNETT, JOYCE A. MOFFAT, PAUL W. ARMSTRONG, and GERALD S. MARKS	554
<b>Mogenson, G.J.</b>	
Nutrition and hypertension	
GORDON J. MOGENSON, BLANCHE M. BOX, and DIANA J. PHILBRICK	260
<b>Mordhorst, T.</b>	
Enkephalinergic control of somatostatin secretion from the perfused rat stomach	
C.H.S. MCINTOSH, Y.N. KWOK, T. MORDHORST, E. NISHIMURA, R.A. PEDERSON, and J.C. BROWN	657
<b>Morrison, N.L.</b>	
Alterations in myocardial RNA synthesis and RNA polymerase activity during normal growth	
JAMES D. MCCULLY, PAUL B. TAYLOR, and NANCY L. MORRISON	341
<b>Müller-Ott, K.</b>	
Dose related effects of furosemide, bumetanide, and piretanide on the thick ascending limb function in the rat	
HANS-ULRICH GUTSCHE, KLAUS MÜLLER OTT, REINHARD BRUNKHORST, and WALTER NIEDERMAYER	159
<b>Muramatsu, I.</b>	
Vasorelaxing actions of molsidomine and its metabolites, in comparison with nitroglycerin	
IKUNOBU MURAMATSU, KAZUTOSHI FUJII, YOSHIHIKO SAKAKIBARA, and MOTOHATSU FUJIWARA	1071
<b>Murota, Y.</b>	
Regulation of cyclic GMP phosphodiesterase in the submandibular gland of adult rat	
NORIKO YOKOYAMA, YUMIKO MUROTA, TETSUO NEGISHI, MASAO SAITO, and SHUNSUKE FURUYAMA	109

<b>Murthy, C.R.K.</b>		
Calcium-dependent release of acetyl-coenzyme A from liver mitochondria		
A.M. BENJAMIN, CH.R.K. MURTHY, and J.H. QUASTEL	154	
<b>Nadeau, R.</b>		
Electrophysiological effects of ouabain in 6-hydroxydopamine pretreated dogs		
DIANE GODIN, CLAUDE GUIMOND, and RÉGINALD NADEAU	229	
Acute effects of amiodarone in the isolated dog heart		
MIYOHARU KOBAYASHI, DIANE GODIN, and RÉGINALD NADEAU	308	
<b>Nagata, K.</b>		
A two-dimensional analysis of regional myocardial function in the dog		
HIDEO NOMURA, KAZUHIKO NAGATA, YOSHIHIRO FUTAMURA, YOSHIOUKI HAMA, and IWAO SOTOBATA	920	
<b>Nakamura, Y.</b>		
Phase-linked variations in the amplitude of the digastric nerve jaw-opening reflex response during fictive mastication in the rabbit		
J.P. LUND, S. ENOMOTO, H. HAYASHI, K. HIRABA, M. KATOH, Y. NAKAMURA, Y. SAHARA, and M. TAIRA	1122	
<b>Nakatsu, K.</b>		
Diacetylmorphine (heroin) hydrolases in human blood		
J.A. OWEN and K. NAKATSU	870	
Gas - liquid chromatographic determination of the distribution of 3,3',4,4'-tetrachlorobiphenyl in the adult female rat following short-term oral administration		
D.W. CLARKE, J.F. BRIEN, K. NAKATSU, H. TAUB, W.J. RACZ, and G.S. MARKS	1093	
<b>Narayanan, N.</b>		
Effects of age on muscarinic cholinergic receptors in rat myocardium		
NJANOOR NARAYANAN and Jo-Anne DERBY	822	
<b>Navert, H.</b>		
Release of intestinal diamine oxidase by histamine in rats		
ARMIN WOLLIN and HENRI NAVERT	349	
<b>Negishi, T.</b>		
Regulation of cyclic GMP phosphodiesterase in the submandibular gland of adult rat		
NORIKO YOKOYAMA, YUMIKO MUROTA, TETSUO NEGISHI, MASAO SAITO, and SHUNSUKE FURUYAMA	109	
<b>Netchitailo, P.</b>		
Action directe des antagonistes des minéralocorticoïdes sur la biosynthèse de l'aldostérone: activités comparées de plusieurs nouveaux composés		
P. NETCHITAILO, I. PERROTEAU, C. DELARUE, F. LEBOULENGER, M.H. CAPRON et H. VAUDRY	23	
<b>Nghiem, C.</b>		
Inhibition by cinnarizine of the responses of smooth muscle from spontaneously hypertensive and normotensive rats		
C. NGHIEM, V.C. SWAMY, and D.J. TRIGGLE	1523	
<b>Niedermayer, W.</b>		
Dose related effects of furosemide, bumetanide, and piretanide on the thick ascending limb function in the rat		
HANS-ULRICH GUTSCHE, KLAUS MÜLLER OTT, REINHARD BRUNKHORST, and WALTER NIEDERMAYER	159	
<b>Niho, T.</b>		
Tofisopam, a new 2,3-benzodiazepine. Inhibition of changes induced by stress loading and hypothalamic stimulation		
K. YAMAGUCHI, K. SUZUKI, T. NIHO, M. SHIMORA, C. ITO, and H. OHNISHI	619	
<b>Nishimura, E.</b>		
Enkephalinergic control of somatostatin secretion from the perfused rat stomach		
C.H.S. MCINTOSH, Y.N. KWOK, T. MORDHORST, E. NISHIMURA, R.A. PEDERSON, and J.C. BROWN	657	
<b>Nomura, H.</b>		
A two-dimensional analysis of regional myocardial function in the dog		
HIDEO NOMURA, KAZUHIKO NAGATA, YOSHIHIRO FUTAMURA, YOSHIOUKI HAMA, and IWAO SOTOBATA	920	
<b>Norris, A.R.</b>		
Methylmercury distribution, metabolism, and neurotoxicity in the mouse brain		
LAURIE J.S. VANDEWATER, WILLIAM J. RACZ, ALBERT R. NORRIS, and ERWIN BUNCLE	1487	
<b>Nugent, S.T.</b>		
Periodicities in respiration and heart rate in newborns		
JOHN P. FINLEY and SHERWIN T. NUGENT	329	
<b>Oakes, P.</b>		
Studies on canine gastric antrum smooth muscle: preparation and characterization of a plasma membrane enriched fraction		
A.K. GROVER, P. OAKES, S.N. SIPOS, C.Y. KWAN, and R.E. GARFIELD	927	
<b>O'Brien, D.W.</b>		
Calcium efflux from amphibian sciatic nerve		
R.E. SNYDER and D.W. O'BRIEN	1085	
<b>Ohnishi, H.</b>		
Tofisopam, a new 2,3-benzodiazepine. Inhibition of changes induced by stress loading and hypothalamic stimulation		
K. YAMAGUCHI, K. SUZUKI, T. NIHO, M. SHIMORA, C. ITO, and H. OHNISHI	619	
<b>Ohnishi, S.T.</b>		
Measurement of red cell sickling: a method for studying the efficacy of antisickling drugs under physiological conditions		
S. TSUYOSHI OHNISHI, KOJI HASHIMOTO, and TAKASHI SATO	941	
<b>Olson, D.M.</b>		
Prostaglandin synthesis by human amnion is dependent upon extracellular calcium		
DAVID M. OLSON, MARY ANNE OPAVSKY, and JOHN R.G. CHALLIS	1089	
<b>Opavsky, M.A.</b>		
Prostaglandin synthesis by human amnion is dependent upon extracellular calcium		
DAVID M. OLSON, MARY ANNE OPAVSKY, and JOHN R.G. CHALLIS	1089	

<b>Ottaway, C.A.</b> Specific binding of vasoactive intestinal peptide to human circulating mononuclear cells C.A. OTTAWAY, C. BERNAERTS, B. CHAN, and G.R. GREENBERG	664	
		Enkephalinergic control of somatostatin secretion from the perfused rat stomach C.H.S. MCINTOSH, Y.N. KWOK, T. MORDHORST, E. NISHIMURA, R.A. PEDERSON, and J.C. BROWN
<b>Otten, M.</b> Increased mortality with cardiotoxic doses of Adriamycin after verapamil pretreatment despite prevention of myocardial calcium accumulation SIMON W. RABKIN, MAUREEN OTTEN, and PHILIP I. POLIMENI	1050	657
		Pencharz, P.B. Diurnal variation in urine [ <sup>15</sup> N]urea content, estimates of whole body protein turnover, and isotope recycling in healthy meal-fed children with cystic fibrosis H.G. PARSONS, M.M. WOOD, and P.B. PENCHARZ
<b>Owen, J.A.</b> Diacetylmorphine (heroin) hydrolases in human blood J.A. OWEN and K. NAKATSU	870	72
		Perks, A.M. The kinin system and ovulation: changes in plasma kininogens, and in kinin-forming enzymes in the ovaries and blood of rats with 4-day estrous cycles CAROLINE SMITH and A.M. PERKS
<b>Pace-Asciak, C.R.</b> Potent vasoconstriction of the isolated perfused rat kidney by leukotrienes C <sub>4</sub> and D <sub>4</sub> A. ROSENTHAL and C.R. PACE-ASCIAK	325	736
		Perroteau, I. Action directe des antagonistes des minéralocorticoïdes sur la biosynthèse de l'aldostérone: activités comparées de plusieurs nouveaux composés P. NETCHITAILO, I. PERROTEAU, C. DELARUE, F. LEBOULENGER, M.H. CAPRON et H. VAUDRY
<b>Padjen, A.L.</b> Primary afferent depolarization in frog spinal cord is associated with an increase in membrane conductance ANTE L. PADJEN and TOSHIO HASHIGUCHI	626	23
		Person, A.E.G. The effect of tubular perfusion with PGE <sub>2</sub> , PGF <sub>2α</sub> , and PGl <sub>2</sub> on the tubuloglomerular feedback control in the rat A. ERIK G. PERSSON, BENGT HAHNE, and GÖRAN SELÉN
<b>Page, J.A.</b> Gas-liquid chromatographic determination of salsoinol in the striatum of rat brain during the calcium carbimide-ethanol interaction J.F. BRIEN, P.J. ANDREWS, C.W. LOOMIS, and J.A. PAGE	632	1317
		Petenusci, S.O. Glucose homeostasis during the early stages of liver regeneration in fasted rats SÉRGIO O. PETENUSCI, THELMA C. FREITAS, EDUARDO S. ROSELINO, and RENATO H. MIGLIORINI
<b>Palmer, W.K.</b> Cyclic AMP phosphodiesterase activity in the hearts of trained rats WARREN K. PALMER and SYLVIA DOUKAS	1017	222
		Petrillo, G.A. Phase locking of the respiratory rhythm in cats to a mechanical ventilator G.A. PETRILLO, LEON GLASS, and T. TRIPPENBACH
<b>Pang, C.C.Y.</b> Vasopressin and angiotensin in the control of arterial pressure and regional blood flow in anaesthetized, surgically stressed rats CATHERINE CHEUK YING PANG	1494	599
		Philbrick, D.J. Nutrition and hypertension GORDON J. MOGENSON, BLANCHE M. BOX, and DIANA J. PHILBRICK
<b>Pang, P.K.T.</b> Chronotropic actions of bPTH-(1-34) in the right atrium of the rat THOMAS E. TENNER, JR., SASANKA RAMANADHAM, MAY C.M. YANG, and PETER K.T. PANG	1162	260
		Phillips, A.G. Low-frequency stimulation of the perforant path produces long-term potentiation in the dentate gyrus of unanesthetized rats R.W. SKELTON, J.J. MILLER, and A.G. PHILLIPS
<b>Parathyroid hormone (PTH) fragments relax the guinea-pig trachea <i>in vitro</i></b> Y.C. YEN, MAY C.M. YANG, ALEXANDER D. KENNY, and PETER K.T. PANG	1324	1156
		Phipps, B.A. Monosaccharide transport and hexokinase activity in leg muscles from cardiomyopathic hamsters BURNELL A. PHIPPS and JUST ELBRINK
<b>Parsons, H.G.</b> Diurnal variation in urine [ <sup>15</sup> N]urea content, estimates of whole body protein turnover, and isotope recycling in healthy meal-fed children with cystic fibrosis H.G. PARSONS, M.M. WOOD, and P.B. PENCHARZ	72	369
		Plamondon, R. Tip potential of open-tip glass microelectrodes: theoretical and experimental studies SIMON GAGNÉ and RÉJEAN PLAMONDON
<b>Paul, C.J.</b> Isoniazid-induced hepatic steatosis in rabbits: an explanation for susceptibility and its antagonism by pyridoxine hydrochloride L.W. WHITEHOUSE, L. TRYPHONAS, C.J. PAUL, G. SOLOMONRAJ, B.H. THOMAS, and L.T. WONG	478	857
		Podesta, R.B. Effects of 5-hydroxytryptamine on carbohydrate metabolism in <i>Hymenolepis diminuta</i> (Cestoda) M.S. RAHMAN, D.F. METTRICK, and R.B. PODESTA
<b>Pederson, R.A.</b> The gastrointestinal peptides and nutrition J.C. BROWN, C.H.S. MCINTOSH, and R.A. PEDERSON	282	137

<b>Polimeni, P.I.</b>	
Increased mortality with cardiotoxic doses of Adriamycin after verapamil pretreatment despite prevention of myocardial calcium accumulation	
SIMON W. RABKIN, MAUREEN OTTEN, and PHILIP I. POLIMENI	1050
<b>Potter, R.F.</b>	
Are enlarged fenestrations in the internal elastic lamina of the rabbit thoracic aorta associated with poststenotic dilatation?	
RICHARD F. POTTER and MARGOT R. ROACH	101
<b>Przyklenk, K.</b>	
Microvascular evidence for a transition zone around a chronic myocardial infarct in the rat	
K. PRZYKLENK and A.C. GROOM	1516
<b>Puri, V.N.</b>	
Cardiovascular effects of cadmium on intravenous and intracerebroventricular administration in rats	
V.N. PURI and R.N. SUR	1430
<b>Quastel, J.H.</b>	
Calcium-dependent release of acetyl-coenzyme A from liver mitochondria	
A.M. BENJAMIN, CH.R.K. MURTHY, and J.H. QUASTEL	154
<b>Rabkin, S.W.</b>	
Increased mortality with cardiotoxic doses of Adriamycin after verapamil pretreatment despite prevention of myocardial calcium accumulation	
SIMON W. RABKIN, MAUREEN OTTEN, and PHILIP I. POLIMENI	1050
<b>Racz, W.J.</b>	
Gas-liquid chromatographic determination of the distribution of 3,3',4,4'-tetrachlorobiphenyl in the adult female rat following short-term oral administration	
D.W. CLARKE, J.F. BRIEN, K. NAKATSU, H. TAUB, W.J. RACZ, and G.S. MARKS	1093
Methylmercury distribution, metabolism, and neurotoxicity in the mouse brain	
LAURIE J.S. VANDEWATER, WILLIAM J. RACZ, ALBERT R. NORRIS, and ERWIN BUNCLE	1487
<b>Radde, I.C.</b>	
Placental calcium and phosphorus transfer in the guinea pig: lack of effect of modulators of Ca-ATPase and alkaline phosphatase activity	
H.G. MCKERCHER, L.O. DEREWLANY, and I.C. RADDE	1354
<b>Rademaker, A.</b>	
Changes in left ventricular dimensions and performance resulting from acute and chronic volume overload in the conscious dog	
ISRAEL BELENKIE, JOHN S. BAUMBER, and ALFRED RADEMAKER	1274
<b>Rahman, M.S.</b>	
Effects of 5-hydroxytryptamine on carbohydrate metabolism in <i>Hymenolepis diminuta</i> (Cestoda)	
M.S. RAHMAN, D.F. METTRICK, and R.B. PODESTA	137
<b>Raman, S.</b>	
Steroid modulation of response of plasma bicarbonate concentration to NH <sub>4</sub> Cl loading: gamma distribution analysis	
DAVID Z. LEVINE, ROBERT A. MCLEOD, and S. RAMAN	641
<b>Ramanadham, S.</b>	
Chronotropic actions of bPTH-(1-34) in the right atrium of the rat	
THOMAS E. TENNER, JR., SASANKA RAMANADHAM, MAY C.M. YANG, and PETER K.T. PANG	1162
<b>Ramirez, O.A.</b>	
Noradrenergic modulation of neuronal transmission in the offspring of amphetamine-treated rats	
OSCAR A. RAMÍREZ and HUGO F. CARRER	766
<b>Randle, J.</b>	
Perifused adenohypophyseal cells: release of ACTH and kinetics of the response to secretagogues	
JOHN RANDLE and MARIAN JUTISZ	488
<b>Ranney, D.A.</b>	
Effects of oral propranolol and exercise protocol on indices of aerobic function in normal man	
B.J. MACFARLANE, R.L. HUGHSON, H.J. GREEN, D.J. WALTERS, and D.A. RANNEY	1010
<b>Reilly, P.A.</b>	
The occurrence of two hepatic microsomal sites for amobarbital hydroxylation	
P.A. REILLY, B.K. TANG, D.J. STEWART, and W. KALOW	67
<b>Renaud, J.M.</b>	
Effects of step changes in pH on isometric tetanic tension of toad sartorius muscle	
J.M. RENAUD and E. DON STEVENS	830
<b>Reynolds, A.K.</b>	
Increase in ventricular fibrillation threshold following blockade of atrioventricular conduction	
A. KEITH REYNOLDS and PETER E. DRESEL	1079
<b>Reynolds, R.D.</b>	
Comparison of infarct size produced by coronary artery occlusion in purebred beagle and mixed-breed dogs	
WILLIAM E. BURMEISTER and ROBERT D. REYNOLDS	672
<b>Richard, D.</b>	
Pancreatic insulin response in relation to exercise training	
DENIS RICHARD and JACQUES LEBLANC	1194
<b>Roach, M.R.</b>	
Are enlarged fenestrations in the internal elastic lamina of the rabbit thoracic aorta associated with poststenotic dilatation?	
RICHARD F. POTTER and MARGOT R. ROACH	101
Medial elastin in the thoracic and abdominal aorta of sheep and lambs	
CHARLES VAN BAARDWIJK and MARGOT R. ROACH	115
Static elastic studies of lathyritic rabbit carotid arteries and thoracic aorta	
TERESA TERPIN and MARGOT R. ROACH	502
Mechanical anisotropy of purified elastin from the thoracic aorta of dog and sheep	
M.H. SHEREBRIN, S.H. SONG, and MARGOT R. ROACH	539
Comparison of longitudinal elastic properties of proximal and distal strips of aorta-branch junctions from the abdominal aorta of sheep	
JANET CLEAVE and MARGOT R. ROACH	614

<b>Roberge, A.G.</b>	
Effects of chlordiazepoxide administration on biogenic amines in cat brain	
LUC VACHON and ANDREE G. ROBERGE	81
<b>Robinson, E.L.</b>	
Spontaneously hypertensive rats exhibit an enhanced mydriatic response to clonidine. Evidence for enhanced sensitivity of central $\alpha_2$ -adrenoceptors	
G.G. YARBROUGH, D.A. TAYLOR, E.K. ANTOLIK, and E.L. ROBINSON	764
<b>Roselino, E.S.</b>	
Glucose homeostasis during the early stages of liver regeneration in fasted rats	
SÉRGIO O. PETENUSCI, THELMA C. FREITAS, EDUARDO S. ROSELINO, and RENATO H. MIGLIORINI	222
<b>Rosenberger, L.B.</b>	
Mode of action of ergonovine on isolated porcine coronary artery: the role of $Ca^{2+}$	
LOIS B. ROSENBERGER, M.A. GRIFFIN, and H.C. STANTON	685
<b>Rosenthal, A.</b>	
Potent vasoconstriction of the isolated perfused rat kidney by leukotrienes C <sub>4</sub> and D <sub>4</sub>	
A. ROSENTHAL and C.R. PACE-ASCIAK	325
<b>Roy, G.</b>	
Stable membrane potentials and mechanical K <sup>+</sup> responses activated by internal Ca <sup>2+</sup> in HeLa cells	
G. ROY and R. SAUVÉ	144
<b>Royston, J.P.</b>	
The tissue-blood partition coefficient of iodoantipyrine in pig brain and its change with age	
R. WOOTTON, P.A. FLECKNELL, J.P. ROYSTON, and M. JOHN	595
<b>Rutt, D.A.</b>	
The effects of food deprivation on $\beta$ -adrenergic responsiveness in male rats	
CHRISTOPHER C. BARNEY, DANIEL A. RUTT, and MICHAEL J. KATOVICH	1101
<b>Saad, M.H.</b>	
Effects of immunological sensitization on the responses and sensitivity of guinea pig airways to bronchoconstrictors. Modulation by selective inhibition of arachidonic acid metabolism	
MAAN H. SAAD and JOHN F. BURKA	876
<b>Sabbagh, I.</b>	
Postreceptorial refractoriness of prolactin release mechanisms	
R. COLLU, J.R. DUCHARME, D. ELJARMAK, A.M. MARCHISIO, J. BERTRAND, I. SABBAGH, P. GUILLAUMOT, and H. COHEN	676
<b>Safe, S.</b>	
Polychlorinated benzene and phenol congeners as inducers of rat hepatic drug-metabolizing enzymes in immature male Wistar rats	
M.A. DENOMME, B. LEECE, J. GYORKOS, K. HOMONKO, and S. SAFE	1063
<b>Sahara, Y.</b>	
Phase-linked variations in the amplitude of the digastric nerve jaw-opening reflex response during fictive mastication in the rabbit	
J.P. LUND, S. ENOMOTO, H. HAYASHI, K. HIRABA, M. KATOH, Y. NAKAMURA, Y. SAHARA, and M. TAIRA	1122
<b>Saito, M.</b>	
Regulation of cyclic GMP phosphodiesterase in the submandibular gland of adult rat	
NORIKO YOKOYAMA, YUMIKO MUROTA, TETSUO NEGISHI, MASAO SAITO, and SHUNSUKE FURUYAMA	109
<b>Sakai, Y.</b>	
Uptake and release of calcium by canine gastric corpus smooth muscle plasma membrane enriched fraction	
YASUSHI SAKAI, ASHOK K. GROVER, JO-ANN E.T. FOX, and EDWIN E. DANIEL	699
<b>Sakakibara, Y.</b>	
Vasorelaxing actions of molsidomine and its metabolites, in comparison with nitroglycerin	
IKUNOBU MURAMATSU, KAZUTOSHI FUJII, YOSHIIHIKO SAKAKIBARA, and MOTOHATSU FUJIWARA	1071
<b>Salerno, T.A.</b>	
Natriuretic activity of extracts obtained from hearts of different species and from various rat tissues	
ADOLFO J. DEBOLD and TOMAS A. SALERNO	127
<b>Sato, T.</b>	
Measurement of red cell sickling: a method for studying the efficacy of antisickling drugs under physiological conditions	
S. TSUYOSHI OHNISHI, KOJI HASHIMOTO, and TAKASHI SATO	941
<b>Saucier, J.</b>	
Effect of glucocorticoid administration in vivo on insulin binding in rat testis	
JOHANNE SAUCIER, JEAN Y. DUBÉ, and ROLAND R. TREMBLAY	653
<b>Sauvé, R.</b>	
Stable membrane potentials and mechanical K <sup>+</sup> responses activated by internal Ca <sup>2+</sup> in HeLa cells	
G. ROY and R. SAUVÉ	144
<b>Savard, P.</b>	
Determination of 5-hydroxytryptophan, 5-hydroxytryptamine, and 5-hydroxyindoleacetic acid in 20 rat brain nuclei using liquid chromatography with electrochemical detection	
THÉRÈSE DI PAOLO, ANDRÉ DUPONT, PIERRE SAVARD, and MICHEL DAIGLE	530
<b>Schaffer, S.W.</b>	
Potentiation of the actions of insulin by taurine	
W.G. LAMPSON, J.H. KRAMER, and S.W. SCHAFER	457
<b>Schiffrin, E.L.</b>	
Role of the pituitary in the effects of tonin on adrenal secretion of the rat	
ERNESTO L. SCHIFFRIN, RAUL GARCIA, JOLANTA GUTKOWSKA, and JACQUES GENEST	201
<b>Schneiderman, J.H.</b>	
Actions of verapamil on the excitability of cultured neurones	
J.F. MACDONALD and J.H. SCHNEIDERMAN	1467

<b>Schützenberger, W.G.</b>		
Theoretical analysis of adenosine release from cardiac tissue as influenced by transport inhibitors		
H. WIENER, W.G. SCHÜTZENBERGER, E. TUSSL, and N. KOLASSA	946	
<b>Secca, T.</b>		
Evidence for an inotropic positive action of cGMP during excitation-contraction coupling in frog sartorius muscle		
L. MANCINELLI, G. FANÒ, L. FERRONI, T. SECCA, and B.M. DOLCINI	590	
<b>Selén, G.</b>		
The effect of tubular perfusion with PGE <sub>2</sub> , PGF <sub>2α</sub> , and PGI <sub>2</sub> on the tubuloglomerular feedback control in the rat		
A. ERIK G. PERSSON, BENGT HAHNE, and GÖRAN SELÉN	1317	
<b>Sharma, G.P.</b>		
Changes in electrical potential difference and sodium-potassium ATPase of canine mucosa after jejunal-ileal bypass surgery		
G.R. GRAHAME, J.P. SHOENUT, S. TAKEO, and G.P. SHARMA	512	
<b>Sherebrin, M.H.</b>		
Mechanical anisotropy of purified elastin from the thoracic aorta of dog and sheep		
M.H. SHEREBRIN, S.H. SONG, and MARGOT R. ROACH	539	
<b>Shiino, M.</b>		
Stimulatory effect of thyrotrophin-releasing hormone (TRH) on the release of luteinizing hormone (LH) from rat anterior pituitary cells <i>in vitro</i>		
NOBORU FUJIHARA and MASATAKA SHIINO	186	
<b>Shimada, S.G.</b>		
Inhibition of shivering during restraint hypothermia		
STEVEN G. SHIMADA and JOHN T. STITT	977	
<b>Shimura, M.</b>		
Tofisopan, a new 2,3-benzodiazepine. Inhibition of changes induced by stress loading and hypothalamic stimulation		
K. YAMAGUCHI, K. SUZUKI, T. NIHO, M. SHIMURA, C. ITO, and H. OHNISHI	619	
<b>Shoenum, J.P.</b>		
Changes in electrical potential difference and sodium-potassium ATPase of canine mucosa after jejunal-ileal bypass surgery		
G.R. GRAHAME, J.P. SHOENUT, S. TAKEO, and G.P. SHARMA	512	
<b>Shrier, A.</b>		
A comparative study of collagenase- and trypsin-dissociated embryonic heart cells: reaggregation, electrophysiology, and pharmacology		
DIANE COLIZZA, MICHAEL R. GUEVARA, and ALVIN SHRIER	408	
<b>Sipos, S.N.</b>		
Studies on canine gastric antrum smooth muscle: preparation and characterization of a plasma membrane enriched fraction		
A.K. GROVER, P. OAKES, S.N. SIPOS, C.Y. KWAN, and R.E. GARFIELD	927	
<b>Sirek, O.V.</b>		
Growth hormone stimulates serotonin secretion into the hepatic portal circulation		
M.N. HUSSAIN, A. SIREK, M. DVORAK, E. CUKERMAN, and O.V. SIREK	95	
<b>Sitar, D.S.</b>		
Effect of aging on response to induction and metabolizing activity of the hepatic mixed-function oxidase system of male Sprague-Dawley rats		
DANIEL S. SITAR and CHETAN D. DESAI	89	
<b>Skelton, R.W.</b>		
Low-frequency stimulation of the perforant path produces long-term potentiation in the dentate gyrus of unanesthetized rats		
R.W. SKELTON, J.J. MILLER, and A.G. PHILLIPS	1156	
<b>Slosberg, B.N.</b>		
Hypertension: cation transport and the physical properties of erythrocytes		
M.W. WOLOWYK and B.N. SLOSGER	1003	
<b>Smith, C.</b>		
The kinin system and ovulation: changes in plasma kininogens, and in kinin-forming enzymes in the ovaries and blood of rats with 4-day estrous cycles		
CAROLINE SMITH and A.M. PERKS	736	
<b>Snow, T.R.</b>		
A fluorometric study of the possible role of calcium in synchronizing substrate metabolism with contractile performance in rabbit papillary muscle		
T. RUSSELL SNOW	1185	
<b>Snyder, R.E.</b>		
Calcium efflux from amphibian sciatic nerve		
R.E. SNYDER and D.W. O'BRIEN	1085	
<b>Soldin, S.</b>		
Digoxin-amiadarone interaction: <i>in vivo</i> and <i>in vitro</i> studies in rats		
G. KOREN, S. SOLDIN, and S.M. MACLEOD	1483	
<b>Sole, M.J.</b>		
Tissue catecholamines in obstructive nephropathy and acute uremia in the rat		
D.R. WILSON, U. HONRATH, and M.J. SOLE	131	
<b>Solomonraj, G.</b>		
Isoniazid-induced hepatic steatosis in rabbits: an explanation for susceptibility and its antagonism by pyridoxine hydrochloride		
L.W. WHITEHOUSE, L. TRYPHONAS, C.J. PAUL, G. SOLOMONRAJ, B.H. THOMAS, and L.T. WONG	478	
<b>Song, S.H.</b>		
Mechanical anisotropy of purified elastin from the thoracic aorta of dog and sheep		
M.H. SHEREBRIN, S.H. SONG, and MARGOT R. ROACH	539	
<b>Sonnenberg, H.</b>		
Natriuretic effect of atrial extract on isolated perfused rat kidney		
A.D. BAINES, A.J. DEBOLD, and H. SONNENBERG	1462	
<b>Sotobata, I.</b>		
A two-dimensional analysis of regional myocardial function in the dog		
HIDEO NOMURA, KAZUHIKO NAGATA, YOSHIHIRO FUTAMURA, YOSHIIKU HAMA, and IWAO SOTOBATA	920	

<b>Sperelakis, N.</b>		
Calcium antagonist blockade of slow action potentials in cultured chick heart cells		
TUNG LJ and NICK SPERELAKIS	957	
Age-dependent changes in electrophysiologic characteristics of fast and slow action potentials in rat papillary muscle		
MICHIO KOJIMA, NICK SPERELAKIS, GORDON JOHNSON, STEWART EHRREICH, and TIBOR BALAZS	1509	
<b>Sprague, C.L.</b>		
Modulation of ovine myometrial activity by estradiol-17 $\beta$ . The possible involvement of prostaglandins		
S.J. LYÉ, CHER L. SPRAGUE, and J.R.G. CHALLIS	729	
<b>Stanton, H.C.</b>		
Mode of action of ergonovine on isolated porcine coronary artery: the role of $\text{Ca}^{2+}$		
LOIS B. ROSENBERGER, M.A. GRIFFIN, and H.C. STANTON	685	
<b>Steiner, G.</b>		
Receptor and postreceptor insulin resistance induced by <i>in vivo</i> hyperinsulinemia		
C. MARTIN, K.S. DESAI, and G. STEINER	802	
<b>Stern, M.</b>		
<i>In vitro</i> studies on cetamolol, a new potent cardioselective $\beta$ -adrenoceptor blocking agent with intrinsic sympathomimetic activity		
D. GRIMES, M. STERN, A. WOJDAN, and J.R. CUMMINGS	1109	
<b>Stevens, E.D.</b>		
Effects of step changes in pH on isometric tetanic tension of toad sartorius muscle		
J.M. RENAUD and E. DON STEVENS	830	
<b>Stewart, D.J.</b>		
The occurrence of two hepatic microsomal sites for amobarbital hydroxylation		
P.A. REILLY, B.K. TANG, D.J. STEWART, and W. KALOW	67	
<b>Stewart, P.A.</b>		
Modern quantitative acid-base chemistry		
PETER A. STEWART	1444	
<b>Stinebaugh, B.</b>		
Importance of medullary events in ammonium excretion: studies in acute respiratory and acute metabolic acidosis		
ANDRE GOUGOUX, PATRICK VINAY, GUY LEMIEUX, MARC GOLDSTEIN, BOBBY STINEBAUGH, and MITCHELL HALPERIN	35	
<b>Stinebaugh, B.J.</b>		
Effect of acute changes in the $\text{Paco}_2$ on acid-base parameters in normal dogs and dogs with metabolic acidosis or alkalosis		
M. BERCOVICI, C.B. CHEN, M.B. GOLDSTEIN, B.J. STINEBAUGH, and M.L. HALPERIN	166	
<b>Stitt, J.T.</b>		
Inhibition of shivering during restraint hypothermia		
STEVEN G. SHIMADA and JOHN T. STITT	977	
<b>Sunahara, G.</b>		
Nonadditive effects of combined <i>in vivo</i> hepatic microsomal enzyme inducers in the Wistar rat		
LARRY S. GONTOVNICK, GEOFFREY SUNAHARA, and GAIL D. BELLWARD	983	
<b>Sur, R.N.</b>		
Cardiovascular effects of cadmium on intravenous and intracerebroventricular administration in rats		
V.N. PURI and R.N. SUR	1430	
<b>Suzuki, K.</b>		
Tofisopam, a new 2,3-benzodiazepine. Inhibition of changes induced by stress loading and hypothalamic stimulation		
K. YAMAGUCHI, K. SUZUKI, T. NIHO, M. SHIMORA, C. ITO, and H. OHNISHI	619	
<b>Swain, M.G.</b>		
Inhibition of uroporphyrinogen decarboxylase by 3,3',4,4'-tetrachlorobiphenyl in chick embryo liver cell culture		
M.G. SWAIN, S.B. FOLLOW, and G.S. MARKS	105	
<b>Swamy, V.C.</b>		
Inhibition by cinnarizine of the responses of smooth muscle from spontaneously hypertensive and normotensive rats		
C. NGHIEM, V.C. SWAMY, and D.J. TRIGGLE	1523	
<b>Tahiliani, A.G.</b>		
Prevention and reversal of altered myocardial function in diabetic rats by insulin treatment		
ARUN G. TAHLIANI, RAO V.S.V. VADLAMUDI, and JOHN H. MCNEILL	516	
<b>Taira, M.</b>		
Phase-linked variations in the amplitude of the digastric nerve jaw-opening reflex response during fictive mastication in the rabbit		
J.P. LUND, S. ENOMOTO, H. HAYASHI, K. HIRABA, M. KATOH, Y. NAKAMURA, Y. SAHARA, and M. TAIRA	1122	
<b>Takeo, S.</b>		
Changes in electrical potential difference and sodium-potassium ATPase of canine mucosa after jejunal-ileal bypass surgery		
G.R. GRAHAME, J.P. SHOENUT, S. TAKEO, and G.P. SHARMA	512	
<b>Tang, B.K.</b>		
The occurrence of two hepatic microsomal sites for amobarbital hydroxylation		
P.A. REILLY, B.K. TANG, D.J. STEWART, and W. KALOW	67	
<b>Taub, H.</b>		
Gas-liquid chromatographic determination of the distribution of 3,3',4,4'-tetrachlorobiphenyl in the adult female rat following short-term oral administration		
D.W. CLARKE, J.F. BRIEN, K. NAKATSU, H. TAUB, W.J. RACZ, and G.S. MARKS	1093	
<b>Taylor, D.A.</b>		
Spontaneously hypertensive rats exhibit an enhanced mydriatic response to clonidine. Evidence for enhanced sensitivity of central $\alpha_2$ -adrenoceptors		
G.G. YARBROUGH, D.A. TAYLOR, E.K. ANTOLIK, and E.L. ROBINSON	764	
<b>Taylor, P.B.</b>		
Alterations in myocardial RNA synthesis and RNA polymerase activity during normal growth		
JAMES D. MCCULLY, PAUL B. TAYLOR, and NANCY L. MORRISON	341	
<b>Teasdale, G.M.</b>		
Interaction of histamine with noradrenergic constrictory mechanisms in cat cerebral arteries and veins		
PAUL M. GROSS, A. MURRAY HARPER, and GRAHAM M. TEASDALE	756	

<b>Tenner, T.E., Jr.</b>	
Chronotropic actions of bPTH-(1-34) in the right atrium of the rat	
THOMAS E. TENNER, JR., SASANKA RAMANADHAM,	
MAY C.M. YANG, and PETER K.T. PANG	1162
<b>Terpin, T.</b>	
Static elastic studies of lathyritic rabbit carotid arteries and thoracic aorta	
TERESA TERPIN and MARGOT R. ROACH	502
<b>Thibault, G.</b>	
Kallikrein concentration in submandibular glands of rats chronically treated with isoproterenol	
JOLANTA GUTKOWSKA, GAËTAN THIBAULT,	
MARC CANTIN, RAUL GARCIA, and JACQUES GENEST	449
<b>Thomas, B.H.</b>	
Isoniazid-induced hepatic steatosis in rabbits: an explanation for susceptibility and its antagonism by pyridoxine hydrochloride	
L.W. WHITEHOUSE, L. TRYPHONAS, C.J. PAUL,	
G. SOLOMONRAJ, B.H. THOMAS, and L.T. WONG	478
<b>Thomson, A.B.R.</b>	
Kinetics of uptake of glucose in rabbit jejunum: influence of sodium, unstirred layers, and passive permeation	
A.B.R. THOMSON	1129
<b>Track, N.S.</b>	
Cholinergic control mechanisms for immunoreactive motilin release and motility in the canine duodenum	
J.E.T. FOX, E.E. DANIEL, J. JURY, N.S. TRACK, and	
S. CHIU	1042
<b>Tremblay, R.R.</b>	
Effect of glucocorticoid administration <i>in vivo</i> on insulin binding in rat testis	
JOHANNE SAUCIER, JEAN Y. DUBÉ, and	
ROLAND R. TREMBLAY	653
<b>Triggle, C.R.</b>	
The action of the ionophore ionomycin in guinea-pig intestinal smooth muscle	
G.T. BOLGER, C.R. TRIGGLE, and D.J. TRIGGLE	535
<b>Triggle, D.J.</b>	
The action of the ionophore ionomycin in guinea-pig intestinal smooth muscle	
G.T. BOLGER, C.R. TRIGGLE, and D.J. TRIGGLE	535
Inhibition by cinnarizine of the responses of smooth muscle from spontaneously hypertensive and normotensive rats	
C. NGHIEM, V.C. SWAMY, and D.J. TRIGGLE	1523
<b>Trippenbach, T.</b>	
Phase locking of the respiratory rhythm in cats to a mechanical ventilator	
G.A. PETRILLO, LEON GLASS, and T. TRIPPENBACH	599
<b>Trotter, M.J.</b>	
Hypertonicity and force development in frog skeletal muscle fibres	
PETER C. VAUGHAN, BERNARD H. BRESSLER,	
LAUREEN A. DUSIK, and MARTIN J. TROTTER	847
<b>Tryphonas, L.</b>	
Isoniazid-induced hepatic steatosis in rabbits: an explanation for susceptibility and its antagonism by pyridoxine hydrochloride	
L.W. WHITEHOUSE, L. TRYPHONAS, C.J. PAUL,	
G. SOLOMONRAJ, B.H. THOMAS, and L.T. WONG	478
<b>Tucker, A.</b>	
Chemical sympathectomy and serotonin inhibition reduce monocrotaline-induced right ventricular hypertrophy in rats	
A. TUCKER, S.E. BRYANT, H.H. FROST, and N. MIGALLY	356
<b>Tuisl, E.</b>	
Theoretical analysis of adenosine release from cardiac tissue as influenced by transport inhibitors	
H. WIENER, W.G. SCHÜTZENBERGER, E. TUISL, and	
N. KOLASSA	946
<b>Unikowsky, B.</b>	
Failure of delta-aminolevulinic acid and porphobilinogen to alter renal salt and water excretion in the dog	
BERNARD UNIKOWSKY and MORTIMER LEVY	363
<b>Vachon, L.</b>	
Effects of chlordiazepoxide administration on biogenic amines in cat brain	
LUC VACHON and ANDREE G. ROBERGE	81
<b>Vadas, P.</b>	
Involvement of circulating phospholipase A <sub>2</sub> in the pathogenesis of the hemodynamic changes in endotoxin shock	
PETER VADAS and JOHN B. HAY	561
<b>Vadlamudi, R.V.S.V.</b>	
Prevention and reversal of altered myocardial function in diabetic rats by insulin treatment	
ARUN G. TAHLIANI, RAO V.S.V. VADLMUDI, and	
JOHN H. MCNEILL	516
<b>van Baardwijk, C.</b>	
Medial elastin in the thoracic and abdominal aorta of sheep and lambs	
CHARLES VAN BAARDWIJK and MARGOT R. ROACH	115
<b>Vandewater, L.J.S.</b>	
Methylmercury distribution, metabolism, and neurotoxicity in the mouse brain	
LAURIE J.S. VANDEWATER, WILLIAM J. RACZ,	
ALBERT R. NORRIS, and ERWIN BUNCHEL	1487
<b>Vassalle, M.</b>	
Calcium overload and strophanthidin-induced mechanical toxicity in cardiac Purkinje fibers	
CHENG-I LIN and MARIO VASSALLE	1329
<b>Vaudry, H.</b>	
Action directe des antagonistes des minéralocorticoïdes sur la biosynthèse de l'aldostéron: activités comparées de plusieurs nouveaux composés	
P. NETCHITAILO, I. PERROTEAU, C. DELARUE,	
F. LEBOULENGER, M.H. CAPRON et H. VAUDRY	23
<b>Vaughan, P.C.</b>	
Hypertonicity and force development in frog skeletal muscle fibres	
PETER C. VAUGHAN, BERNARD H. BRESSLER,	
LAUREEN A. DUSIK, and MARTIN J. TROTTER	847
<b>Vayo, H.W.</b>	
Some red blood cell geometry	
H. WESTCOTT VAYO	646
<b>Vegesna, R.V.K.</b>	
Comparison of the effects of forskolin and isoproterenol on cyclic AMP levels and tension in bovine coronary artery	
RAJU V.K. VEGESNA and JACK DIAMOND	1202

<b>Vinay, P.</b>		
Importance of medullary events in ammonium excretion: studies in acute respiratory and acute metabolic acidosis		
ANDRÉ GOUGOUX, PATRICK VINAY, GUY LEMIEUX, MARC GOLDSTEIN, BOBBY STINEBAUGH, and MITCHELL HALPERIN	35	
Bicarbonaturic effect of acetazolamide in the dog: the influence of graded volume expansion		
ANDRÉ GOUGOUX, PATRICK VINAY, MARCELLE DUPLAİN, DIANE LANTHIER, MANUEL CARDOSO, and GUY LEMIEUX	911	
<b>Virág, S.</b>		
The development of the early atrioventricular conduction system in the embryonic heart		
SZ. VIRÁGH and C.E. CHALLICE	775	
<b>Vohra, M.M.</b>		
The effects of the ionophore A-23187 on the rat vas deferens		
M.W. WARENYCIA and M.M. VOHRA	97	
<b>Walker, B.L.</b>		
Fats in nutrition		
BRIAN L. WALKER	253	
<b>Walker, M.J.A.</b>		
Responses to ligation of a coronary artery in conscious rats and the actions of antiarrhythmics		
K.M. JOHNSTON, B.A. MACLEOD, and M.J.A. WALKER	1340	
<b>Walters, D.J.</b>		
Effects of oral propranolol and exercise protocol on indices of aerobic function in normal man		
B.J. MACFARLANE, R.L. HUGHSON, H.J. GREEN, D.J. WALTERS, and D.A. RANNEY	1010	
<b>Warenycia, M.W.</b>		
The effects of the ionophore A-23187 on the rat vas deferens		
M.W. WARENYCIA and M.M. VOHRA	97	
<b>Warren, B.L.</b>		
Effects of chronic mestranol and (or) norethindrone treatment on ethanol-associated decreases in hepatic benz[a]pyrene hydroxylase activity and increases in central vein fat accumulation in the female Wistar rat		
B.L. WARREN and G.D. BELLWARD	808	
<b>Weiss, S.</b>		
FMRFamide effects on spontaneous and induced contractions of the anterior gizzard in <i>Aplysia</i>		
TOM AUSTIN, SAM WEISS, and KEN LUKOWIAK	949	
<b>Wexler, M.J.</b>		
Renal blood flow in normal dogs and in dogs with experimental liver cirrhosis following the acute continuous infusion of endotoxin		
MORTIMER LEVY, ALAN LISZAUER, and MARVIN J. WEXLER	1396	
<b>Whipp, S.C.</b>		
Effect of theophylline and heat-stable enterotoxin of <i>Escherichia coli</i> on transcellular and paracellular ion movement across isolated porcine colon		
R.A. ARGENZIO and S.C. WHIPP	1138	
<b>Whitehouse, L.W.</b>		
Isoniazid-induced hepatic steatosis in rabbits: an explanation for susceptibility and its antagonism by pyridoxine hydrochloride		
L.W. WHITEHOUSE, L. TRYPHONAS, C.J. PAUL, G. SOLOMONRAJ, B.H. THOMAS, and L.T. WONG	478	
<b>Wiener, H.</b>		
Theoretical analysis of adenosine release from cardiac tissue as influenced by transport inhibitors		
H. WIENER, W.G. SCHÜTZENBERGER, E. TUISL, and N. KOLASSA	946	
<b>Wilson, D.R.</b>		
Tissue catecholamines in obstructive nephropathy and acute uremia in the rat		
D.R. WILSON, U. HONRATH, and M.J. SOLE	131	
<b>Wilson, N.</b>		
Distension of the pulmonary vein - atrial junctions and plasma vasopressin in the chloralose-anaesthetized dog		
N. WILSON and J.R. LEDSOME	905	
<b>Windmoller, R.</b>		
Estradiol modulation of ovine uterine activity		
R. WINDMOLLER, S.J. LYNE, and J.R.G. CHALLIS	722	
<b>Wojdan, A.</b>		
<i>In vitro</i> studies on cetamolol, a new potent cardioselective β-adrenoceptor blocking agent with intrinsic sympathomimetic activity		
D. GRIMES, M. STERN, A. WOJDAN, and J.R. CUMMINGS	1109	
<b>Wollin, A.</b>		
Release of intestinal diamine oxidase by histamine in rats		
ARMIN WOLLIN and HENRI NAVERT	349	
<b>Wołowyk, M.W.</b>		
Hypertension: cation transport and the physical properties of erythrocytes		
M.W. WOŁOWYK and B.N. SLOSBERG	1003	
<b>Wong, L.T.</b>		
Isoniazid-induced hepatic steatosis in rabbits: an explanation for susceptibility and its antagonism by pyridoxine hydrochloride		
L.W. WHITEHOUSE, L. TRYPHONAS, C.J. PAUL, G. SOLOMONRAJ, B.H. THOMAS, and L.T. WONG	478	
<b>Wood, M.M.</b>		
Diurnal variation in urine [ <sup>15</sup> N]urea content, estimates of whole body protein turnover, and isotope recycling in healthy meal-fed children with cystic fibrosis		
H.G. PARSONS, M.M. WOOD, and P.B. PENCHARZ	72	
<b>Wootton, R.</b>		
The tissue - blood partition coefficient of iodoantipyrine in pig brain and its change with age		
R. WOOTTON, P.A. FLECKNELL, J.P. ROYSTON, and M. JOHN	595	
<b>Yamaguchi, K.</b>		
Tofisopam, a new 2,3-benzodiazepine. Inhibition of changes induced by stress loading and hypothalamic stimulation		
K. YAMAGUCHI, K. SUZUKI, T. NIHO, M. SHIMORA, C. ITO, and H. OHNISHI	619	

- Yang, M.C.M.**  
Chronotropic actions of bPTH-(1 - 34) in the right atrium of the rat  
THOMAS E. TENNER, JR., SASANKA RAMANADHAM,  
MAY C.M. YANG, and PETER K.T. PANG 1162
- Parathyroid hormone (PTH) fragments relax the guinea-pig trachea  
*in vitro*  
Y.C. YEN, MAY C.M. YANG, ALEXANDER D. KENNY, and  
PETER K.T. PANG 1324
- Yarbrough, G.G.**  
Spontaneously hypertensive rats exhibit an enhanced mydriatic  
response to clonidine. Evidence for enhanced sensitivity of central  
 $\alpha_2$ -adrenoceptors  
G.G. YARBROUGH, D.A. TAYLOR, E.K. ANTOLIK, and  
E.L. ROBINSON 764
- Yashpal, K.**  
Endorphins mediate overshoot of substance P induced facilitation of  
a spinal nociceptive reflex  
KIRAN YASHPAL and J.L. HENRY 303
- Yen, Y.C.**  
Parathyroid hormone (PTH) fragments relax the guinea-pig trachea  
*in vitro*  
Y.C. YEN, MAY C.M. YANG, ALEXANDER D. KENNY, and  
PETER K.T. PANG 1324
- Yokoyama, N.**  
Regulation of cyclic GMP phosphodiesterase in the submandibular  
gland of adult rat  
NORIKO YOKOYAMA, YUMIKO MUROTA,  
TETSUO NEGISHI, MASAO SAITO, and  
SHUNSUKE FURUYAMA 109
- Young, M.A.**  
Comparative effects of adenosine and nifedipine in rabbit vascular  
smooth muscle  
M.A. YOUNG and G.F. MERRILL 1057
- Zambraski, E.J.**  
Effects of phenoxybenzamine, metoprolol, captopril, and meclofenamate on cardiovascular function in deoxycorticosterone acetate hypertensive Yucatan miniature swine  
CHARLES D. CICCONE and EDWARD J. ZAMBRASKI 149
- Zelt, D.T.**  
Patterns of porphyrin accumulation in response to chemicals in  
chick embryo liver cells  
G.S. MARKS, S.B. FOLLOWS, D.T. ZELT, and S.P.C. COLE 546



